

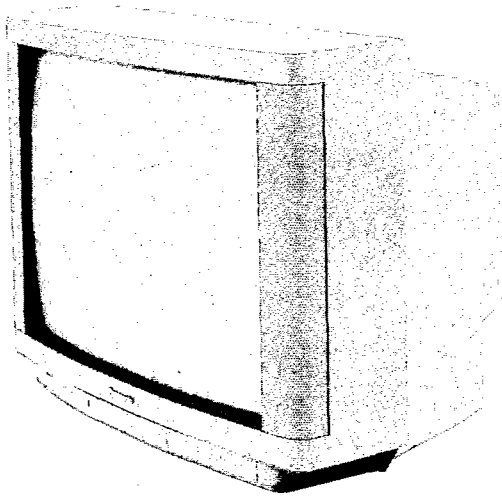
Service Manual

Colour Television

TX-28X1

TX-25X1

ALPHA-4 Chassis



Specifications

(Information in brackets refer to TX-25X1)

| | | |
|----------------------------------|------------------------------|------------------|
| Power Source : | 240 V AC, 50Hz | |
| Power Consumption : | 103W (98W) | |
| Aerial Impedance : | 75Ω unbalanced, Coaxial Type | |
| Receiving System : | PAL-I (UHF), PAL- 60 | |
| Receiving Channels : | UHF E21 - E69 | |
| Intermediate Frequency : | Video | 39.5 MHz |
| | Sound | 33.5 MHz |
| | Colour | 35.07 MHz (PAL) |
| Video / Audio Terminals : | | |
| AV1 IN | Video (21 pin) | 1 Vp-p 75Ω |
| | Audio (21 pin) | 500 mV rms 10kΩ |
| | RGB (21 pin) | |
| AV1 OUT | Video (21 pin) | 1 Vp-p 75Ω |
| | Audio (21 pin) | 500 mV rms 1kΩ |
| AV2 IN | Video (21 pin) | 1 Vp-p 75Ω |
| | Audio (21 pin) | 500 mV rms 10 kΩ |
| | S-Video IN | Y : 1 Vp-p 75Ω |
| | (21 pin) | C : 0.3 Vp-p 75Ω |
| AV2 OUT | Video (21 pin) | 1 Vp-p 75Ω |
| | Audio (21 pin) | 500 mV rms 1kΩ |
| | Audio (RCA x 2) | 500 mV rms 1kΩ |
| AV3 IN | S-Video IN | Y : 1 Vp-p 75Ω |
| | (4-pin) | C : 0.3 Vp-p 75Ω |
| | Audio (RCA x 2) | 500 mV rms 10kΩ |
| | Video (RCA x 1) | 1 Vp-p 75Ω |

High Voltage : 28.0kV (+0.7/-1.0)kV at zero beam current.
(27.3kV(+0.7/-1.0)kV at zero beam current).

Picture Tube : 66cm (59 cm) V FST 110° measured diagonally.

Audio Output :
Internal Speaker 2 x 10 W (Music Power)
8 Ω Impedance

Speakers 2 : 12.5cm x 7.5cm Oval

Headphones 1 x 8 Ω Impedance

Accessories supplied : Remote Control
R6 (UM3) Battery
TV Stand.

Dimensions : Height : 551mm (507mm)
Width : 686mm (635mm)
Depth : 489mm (467mm)

Net Weight 38kg (32.5kg)

Specifications are subject to change without notice.
Weight and dimensions shown are approximate.

Panasonic

Panasonic (U.K.) Ltd.
WILLOUGHBY ROAD,
BRACKNELL,
BERKS,
RG12 4FP.

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| | |
|--------------------------------|----|
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SAFETY PRECAUTIONS

General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the AC outlet.
5. Potentials as high as 29.0 kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

Leakage Current Cold Check

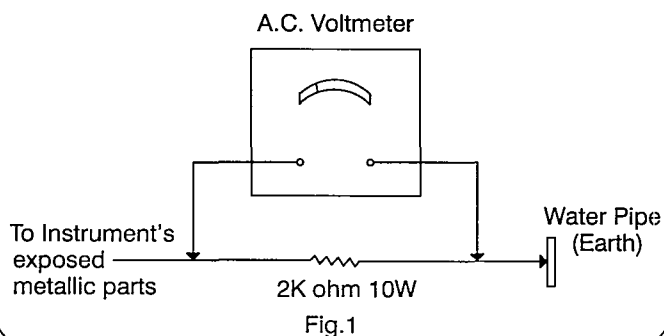
1. Unplug the AC cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis the reading must be infinite.

Leakage Current Hot Check

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2k ohm 10W resistor in series with an exposed metallic part on the receiver and an earth such as a water pipe.
3. Use an AC voltmeter with high impedance to measure the potential across the resistor.
4. Check each exposed Metallic part and check the voltage at each point.
5. Reverse the AC plug at the outlet and repeat each of the above measurements.

6. The potential at any point should not exceed 1.4 Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

HOT CHECK CIRCUIT



X-Radiation Warning

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service ensure that the jig is capable of handling 29.0 kV without causing X-Radiation.

NOTE : It is important to use an accurate periodically calibrated high voltage meter

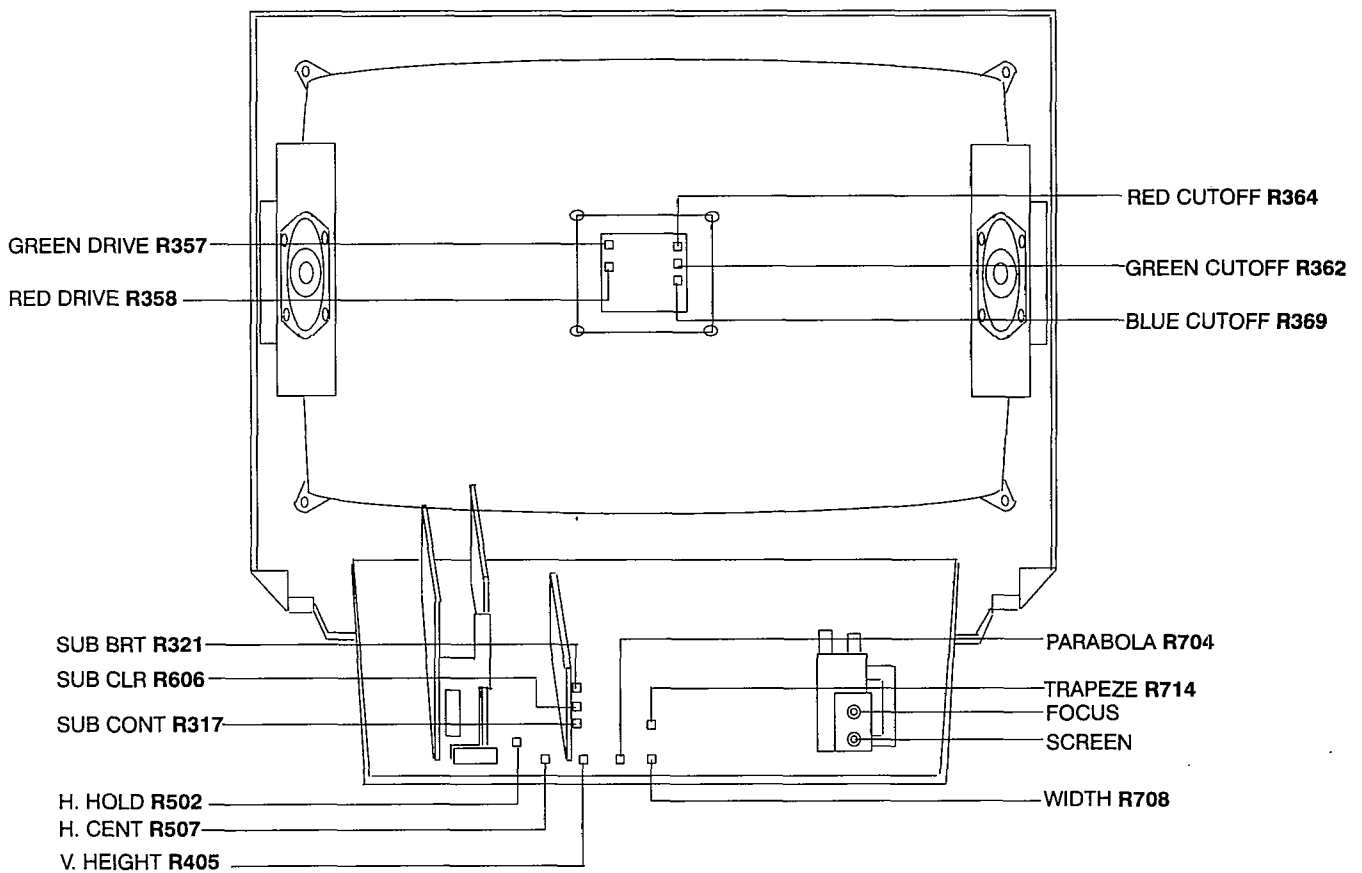
1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate 28.0kV(+0.7/-1.0)kV (27.3kV(+0.7 / -1.0)kV for TX-25X1), if the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent an X-Radiation possibility, it is essential to use the specified tube.

Shut Down Circuit Test

This test must be made as a final check before the set is returned to the customer.

1. Receive the Philips pattern.
2. Check that the shut down circuit functions when -60V is applied to TPE7, but does not function when -40V is applied.

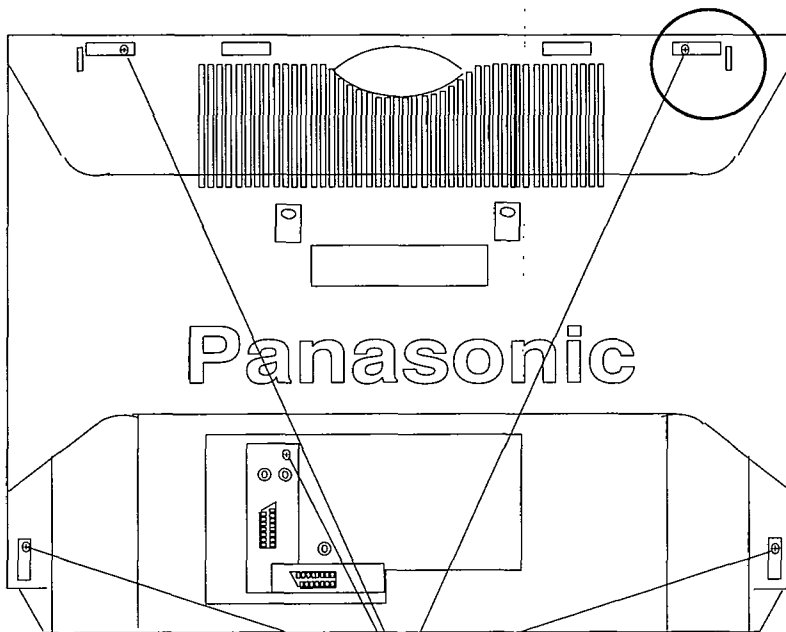
LOCATION OF CONTROLS



SERVICE HINTS

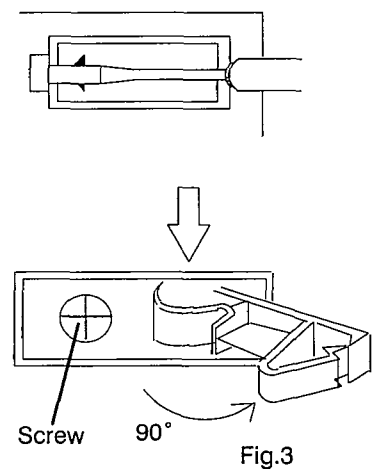
How to remove the rear cover

1. Insert a flat blade screwdriver into the slot of each rear cover fixing clip and release the 6 rear cover fixing clips as shown in Fig.3.
2. Remove the screws (A) as shown Fig.4.



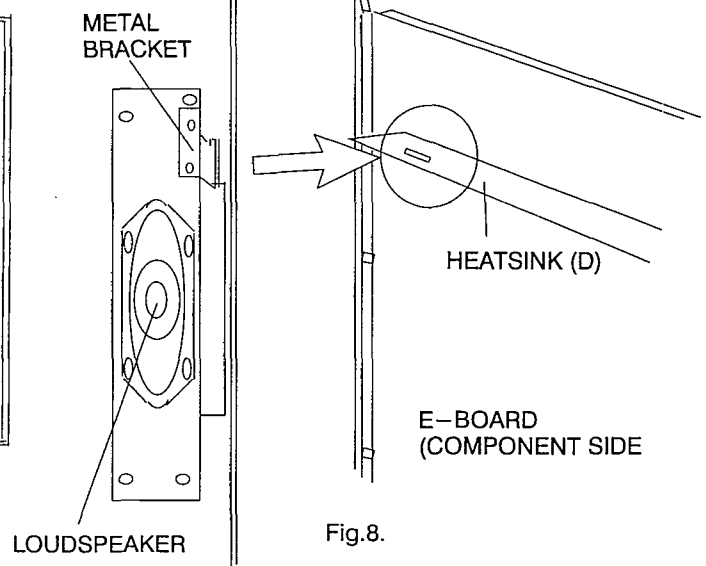
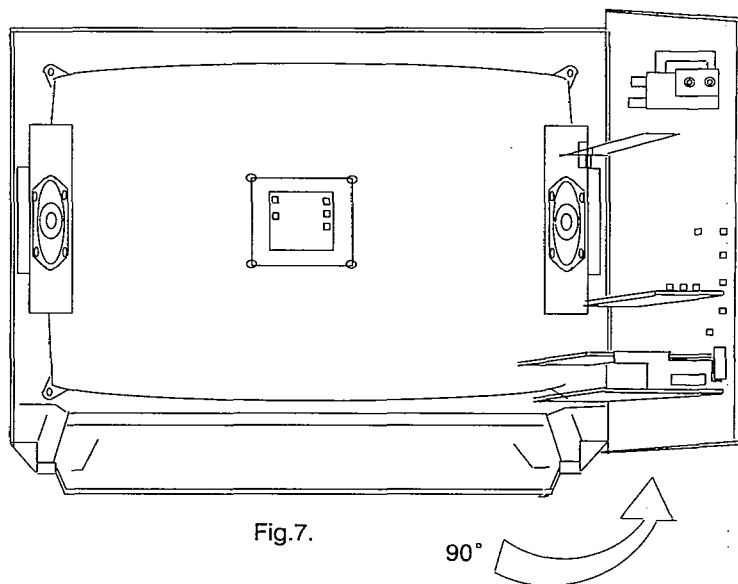
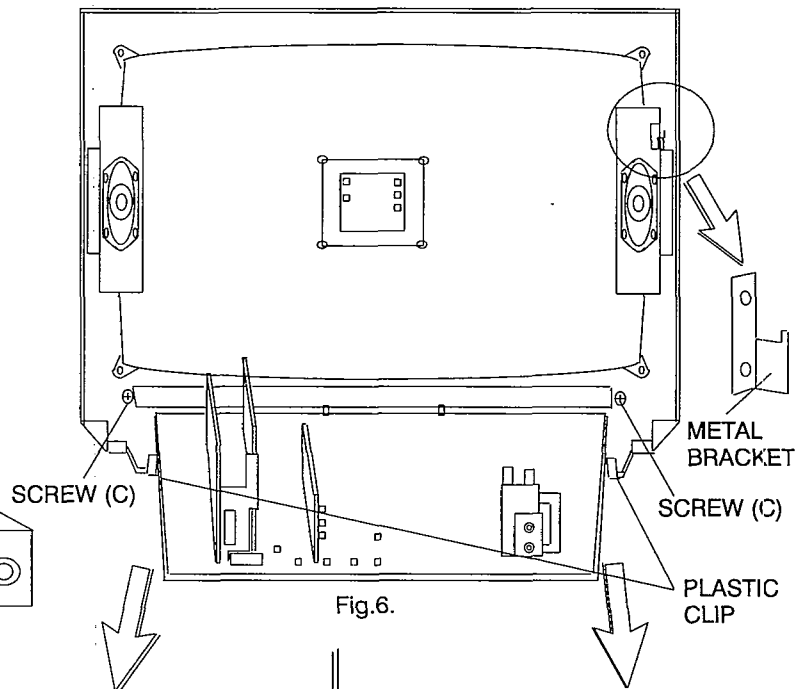
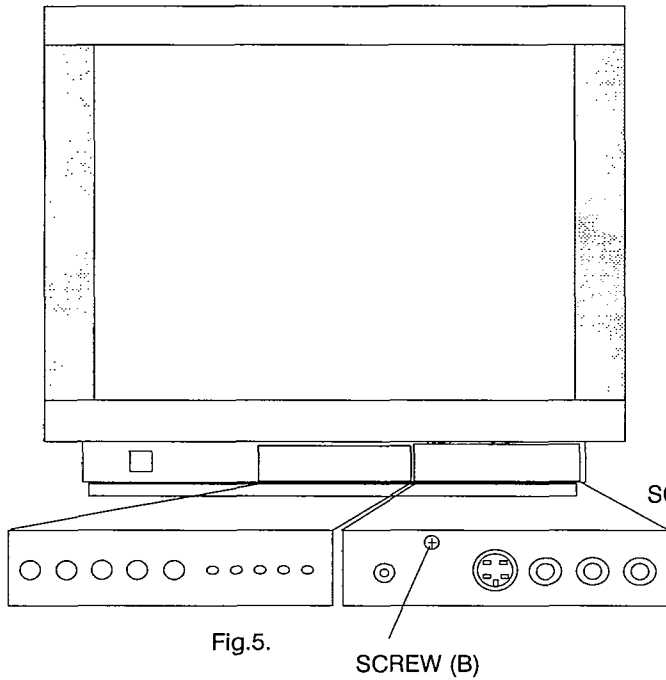
(A)
Screws

Fig.4



HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Remove screw (B) from the front AV panel (Fig.5), remove screws (C) from either side of the control panel then lift the plastic clips and pull the chassis towards you (Fig.6).
2. Release the respective wiring clips and turn the chassis through 90°, anti-clockwise, as shown in Fig.7.
3. Clip the heatsink (D) onto the metal bracket as shown in Fig.8.
4. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer



SERVICE POSITION FOR B,H,C BOARDS.

1. Remove the board that is to be worked on from the main circuit board (E-board)..
2. Connect the extension leads between the chosen board and the E-board, position the board away from the E-board and ensure that they are not touching..
3. After servicing ensure all wiring is returned to its original position before returning the receiver to the customer.
NOTE: The extension lead kit is supplied as a service kit, part number TZSEL000.

ADJUSTMENTS

| ITEM/PREPARATION | ADJUSTMENT PROCEDURE |
|--|--|
| + B VOLTAGE 1. Operate the TV set. 2. Set controls to : Brightness minimum. Sub brightness minimum. | 1. Confirm the indicated test points for the specified voltage. TPE1: 150.0 $\pm 1.5V$ TPE5: 12.0 $\pm 1.0V$ TPE2: 5.0 $\pm 0.3V$ TPE9: 31.0 $\pm 2.5V$ TPE3: 30.0 $\pm 1.0V$ TPE28: 28.0 $\pm 1.0V$ TPE4: 15.5 $\pm 1.0V$ TPE10: 210.0 $\pm 10.0V$ TPE66: 8.0 $\pm 1.0V$ |
| AFC 1. Supply 39.5MHz continuous wave from an oscillator to TPB20 (0.5V p-p, 75 Ω terminated) 2. Connect a DC voltmeter to TPB25 . 3. Operate the TV set. | 1. Adjust L106 so that the voltage at TPB25 becomes 4.0 ($\pm 0.5V$). 2. Change the frequency and confirm the voltage as shown below. +100KHz less than 1.5V. -100KHz more than 5.5V. |
| RF AGC 1. Receive a Philips Pattern. 2. Set the input level to 65dB $\pm 2dB$ (75 Ω open). 3. Connect an oscilloscope between TPB24 and earth in DC mode. | 1. Turn RF AGC control (R128) fully clockwise. 2. Slowly turn R128 counterclockwise to set it at the point before the voltage at TPB24 drops. NOTE: In this case, gain range of the oscilloscope is 1V/div, and set R128 to a point where this voltage drops by 0.2V. |
| HIGH VOLTAGE 1. Receive a cross hatch pattern. 2. Set controls to: Brightness minimum. Contrast minimum. Sub brightness minimum. (Zero beam current) | 1. Connect a DC voltmeter to TPE1 and confirm the Voltage is 150V ($\pm 1.5V$). 2. Connect a high-voltage meter (Electrostatic type) to the anode of the picture tube. 3. Confirm that the high voltage is within a range of 28.0kV($\pm 0.7/1.0$)kV (27.3kV $\pm 0.7kV - 1.0kV$ for TX-25X1 models). |
| CUT OFF VOLTAGE ADJUSTMENT 1. Receive a black and white signal. 2. Degauss the CRT externally. 3. Turn the SCREEN VR on the FBT fully counter-clockwise (minimum voltage), and set R357, R358 to centre position. 4. Set the service switch S401 to SERVICE position. | 1. Connect a DC Voltmeter to TPY1, TPY2 and TPY3 , and in turn adjust R362, R369 and R364 (CUT OFF) set the voltages at each test point to 170V. 2. Slowly turn the SCREEN control clockwise to the point where one of the RGB beams just appears on the CRT. 3. Leave the CUT OFF control of the colour which appeared at step 2 as it is, and turn the remaining CUT OFF controls clockwise so a white horizontal line appears on the CRT 4. Reset the service switch to the NORMAL position. |

SELF CHECK

Self check is a function for checking the I²C bus path through the TV and is displayed on the TV screen, as shown below :-

| SELF CHECK | | |
|------------|----|----|
| 1. | OK | 04 |
| 2. | OK | 07 |
| 3. | OK | 06 |
| 4. | -- | 02 |
| 5. | OK | 03 |
| 6. | -- | |

NB:

(OK or --) is the **Path Check** and the number i.e. 04 is the **Link Option**.

NOTE.

The Link Options are factory preset and are not changable, they are displayed on screen as a reference only.

PATH CHECK

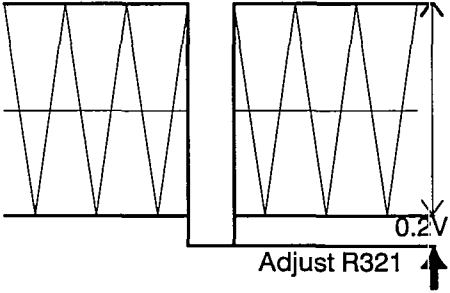
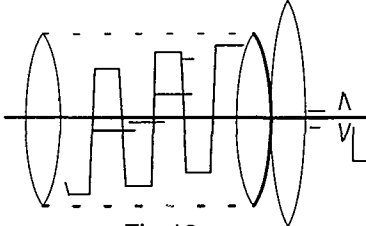
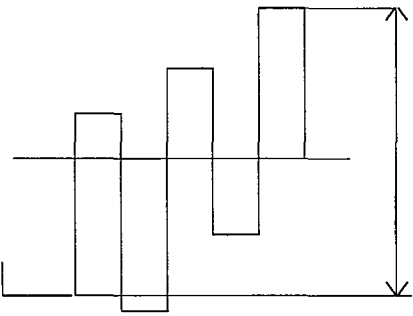
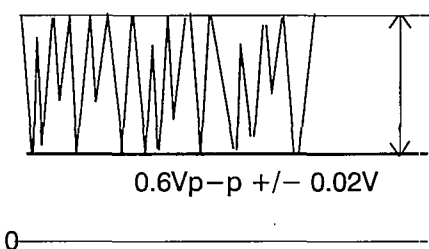
- Memory / RAM.
- Teletext micro
- Tuner
- C.T.I. (NOT USED)
- NICAM
- A2 Stereo (NOT USED)

To select Self Check, press the local VOLUME DOWN button and the remote control OFF-TIMER button at the same time.

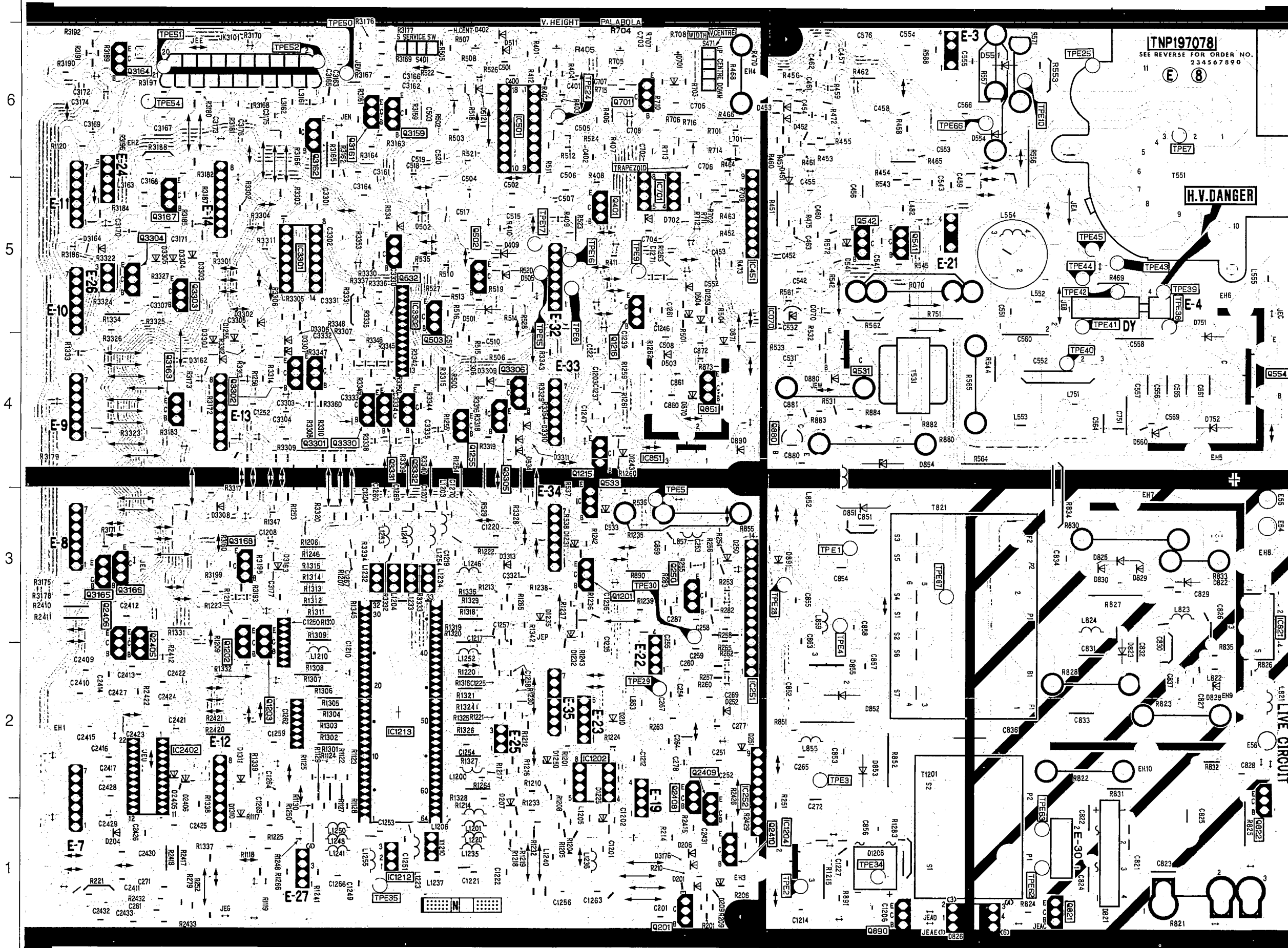
If the particular path is GOOD "OK" is displayed next to the number.

If the path is NO GOOD "--" is displayed.

ADJUSTMENTS

| | | |
|---|---|---|
| <p>SUB CONTRAST</p> <ol style="list-style-type: none"> 1. Receive a Philips pattern. (Input level 75dB). 2. Connect an oscilloscope to TPC15 (TPE15). 3. Set controls to : <div style="display: flex; justify-content: space-between;"> <div>Brightness</div> <div>minimum</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Contrast</div> <div>maximum</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Colour</div> <div>minimum</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Sub colour</div> <div>minimum</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Sharpness</div> <div>centre</div> </div> 4. Connect a short jump wire between TPE7 and earth. | <ol style="list-style-type: none"> 1. Adjust Sub brightness (R321) to set the black level to 0.2V. 2. Adjust the Sub contrast (R317) to set the drive voltage to 2.8V+/- 0.1V-p. 3. Remove the earth from TPE7. | <p style="text-align: right;">Adjust R317 2.8V+/-0.1V-p</p>  <p style="text-align: center;">Fig.9.</p> |
| <p>PAL APC</p> <ol style="list-style-type: none"> 1. Receive a Philips pattern. 2. Connect a short jumper between TPC76 and earth. 3. Connect an oscilloscope to TPC15. | <ol style="list-style-type: none"> 1. Adjust APC trimmer (C637) to obtain the waveform at TPC15 as shown in Fig.10. 2. Remove the earth link and confirm the bars are stationary. |  <p style="text-align: center;">Fig.10.</p> |
| <p>SUB COLOUR</p> <ol style="list-style-type: none"> 1. Receive a PAL colour bar pattern. 2. Set controls to: <div style="display: flex; justify-content: space-between;"> <div>Brightness</div> <div>minimum</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Contrast</div> <div>maximum</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Sub colour</div> <div>centre</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Colour</div> <div>centre</div> </div> <div style="display: flex; justify-content: space-between;"> <div>Sharpness</div> <div>minimum</div> </div> 3. Connect an oscilloscope to TPC15 (TPE15). | <ol style="list-style-type: none"> 1. Connect a short jumper between TPE6 and earth. 2. Adjust the sub colour (R606) for 1.6Vp-p +/- 0.1V at TPC15 (TPE15) as shown in Fig.11. 3. Remove the earth jumper wire. | <p style="text-align: right;">1.6Vp-p +/- 0.1V</p>  <p style="text-align: center;">Fig.11.</p> |
| <p>TEXT CONTRAST</p> <ol style="list-style-type: none"> 1. Receive a teletext signal. 2. Connect an oscilloscope to H1 pin 6. <p>NOTE:</p> <p>If the H-board is disconnected from the E-board a 10KΩ resistor has to be connected between H1 pin 6 and earth.</p> | <ol style="list-style-type: none"> 1. Adjust R3514 to obtain the waveform as shown in Fig.12. | <p style="text-align: right;">0.6Vp-p +/- 0.02V</p>  <p style="text-align: center;">Fig.12.</p> |

E BOARD TNP197078



| PARTS | LOCATION | |
|------------|----------|--|
| | E-BORD | |
| | IC | |
| IC2402 | A2 | |
| IC3301 | B5 | |
| IC1212 | C1 | |
| IC1213 | C2 | |
| IC3302 | C5 | |
| IC1202 | D2 | |
| IC501 | D6 | |
| IC251 | E3 | |
| IC451 | E5 | |
| IC1204 | F1 | |
| IC070 | F5 | |
| IC821 | I3 | |
| Transistor | | |
| Q2405 | A3 | |
| Q2406 | A3 | |
| Q3304 | A5 | |
| Q3165 | A3 | |
| Q3166 | A3 | |
| Q8561 | A6 | |
| Q3164 | A6 | |
| Q3168 | B3 | |
| Q1202 | B3 | |
| Q1203 | B3 | |
| Q1301 | B4 | |
| Q3302 | B4 | |
| Q3163 | B4 | |
| Q250 | B4 | |
| Q3167 | B5 | |
| Q3303 | B5 | |
| Q3162 | B6 | |
| Q3167 | B6 | |
| Q3330 | C4 | |
| Q3331 | C4 | |
| Q1255 | C4 | |
| Q3330 | C4 | |
| Q3331 | C4 | |
| Q3332 | C4 | |
| Q1255 | C4 | |
| Q503 | C5 | |
| Q532 | C5 | |
| Q532 | C5 | |
| Q503 | C5 | |
| Q3159 | C6 | |
| Q3161 | C6 | |

| E-BOARD | |
|------------|-----|
| Transistor | |
| Q1201 | D3 |
| Q553 | D3 |
| Q1255 | D4 |
| Q533 | D4 |
| Q1215 | D4 |
| Q3305 | D4 |
| Q3306 | D4 |
| Q401 | D5 |
| Q502 | D5 |
| Q2401 | E1 |
| Q201 | E1 |
| Q2408 | E2 |
| Q2409 | E2 |
| Q205 | E3 |
| Q851 | E4 |
| Q1216 | E5 |
| Q701 | E6 |
| Q890 | F1 |
| Q890 | F1 |
| Q880 | F4 |
| Q531 | F5 |
| Q531 | F5 |
| Q541 | F6 |
| Q542 | F5 |
| Q821 | G1 |
| Q554 | H4 |
| Q822 | I 2 |
| Q554 | I4 |

| E-BOARD | |
|---------|----|
| Diode | |
| D204 | A1 |
| D1310 | B2 |
| D1311 | B3 |
| D3163 | B3 |
| D3308 | B3 |
| D3162 | B4 |
| D1255 | B4 |
| D3307 | B4 |
| D3302 | B5 |
| D3303 | B5 |
| D3304 | B5 |
| D3306 | B5 |
| D3306 | B5 |
| D1256 | B5 |
| D502 | C5 |
| D502 | C5 |
| D207 | D2 |
| D210 | D2 |
| D1208 | D2 |
| D1235 | D3 |
| D3313 | D3 |
| D1232 | D3 |
| D1231 | D3 |
| D1243 | D4 |
| D3310 | D4 |
| D534 | D4 |
| D3311 | D4 |
| D501 | D5 |
| D505 | D5 |
| D409 | D5 |
| D402 | D6 |
| D201 | E1 |
| D206 | E1 |
| D3176 | E1 |
| D250 | E3 |
| D503 | E4 |
| D890 | E4 |
| D871 | E5 |
| D1253 | E5 |
| D552 | E5 |
| D702 | E5 |
| D701 | E6 |
| D852 | F2 |
| D853 | F2 |
| D855 | F2 |
| D851 | F3 |
| D891 | F3 |
| D880 | F4 |
| D854 | F4 |
| D451 | F6 |
| D826 | G1 |
| D551 | G6 |
| D554 | G6 |
| D821 | H1 |
| D822 | H3 |
| D823 | H3 |
| D825 | H3 |
| D752 | H4 |
| D560 | H4 |
| D751 | H5 |

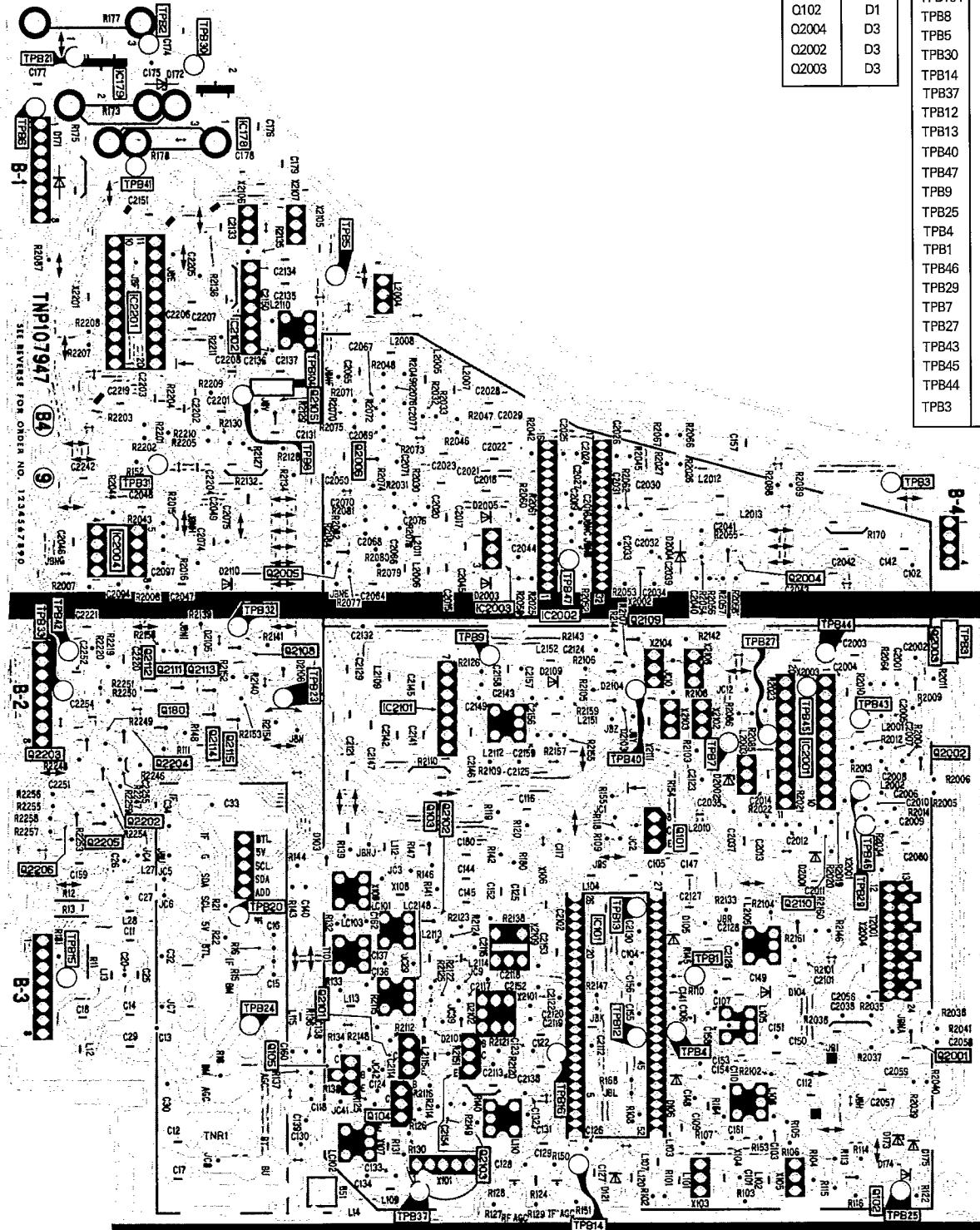
| E-BOARD | |
|---------|--------|
| Diode | |
| D2405 | B2 |
| D2406 | B2 |
| D3307 | B4 |
| D3301 | B5 |
| D404 | D4 |
| D409 | D5 |
| D502 | C5 |
| D1225 | D1 |
| D1250 | D2 |
| D533 | D3 |
| D1232 | D3 |
| D3309 | D4 |
| D512 | D6 |
| D511 | D7 |
| D209 | E1 |
| D870 | E4 |
| D541 | F5 |
| D828 | H2 |
| Test | Points |
| TP#54 | A6 |
| TP#51 | B6 |
| TP#35 | B1 |
| TP#52 | C6 |
| TP#50 | C6 |
| TP#8 | D5 |
| TP#15 | D5 |
| TP#16 | D5 |
| TP#17 | D5 |
| TP#24 | D6 |
| TP#23 | E2 |
| TP#30 | E3 |
| TP#5 | E5 |
| TP#9 | E9 |
| TP#34 | F1 |
| TP#2 | F1 |
| TP#3 | F2 |
| TP#4 | F3 |
| TP#28 | F3 |
| TP#1 | F3 |
| TP#62 | G1 |
| TP#63 | G1 |
| TP#67 | G3 |
| TP#40 | G4 |
| TP#41 | G5 |
| TP#44 | G5 |
| TP#45 | G5 |
| TP#66 | G6 |
| TP#10 | G6 |
| TP#25 | G6 |
| TP#38 | H5 |
| TP#39 | H5 |
| TP#42 | H5 |
| TP#43 | H5 |

X-28X1
X-25X1

B BOARD TNP107947

PARTS LOCATION

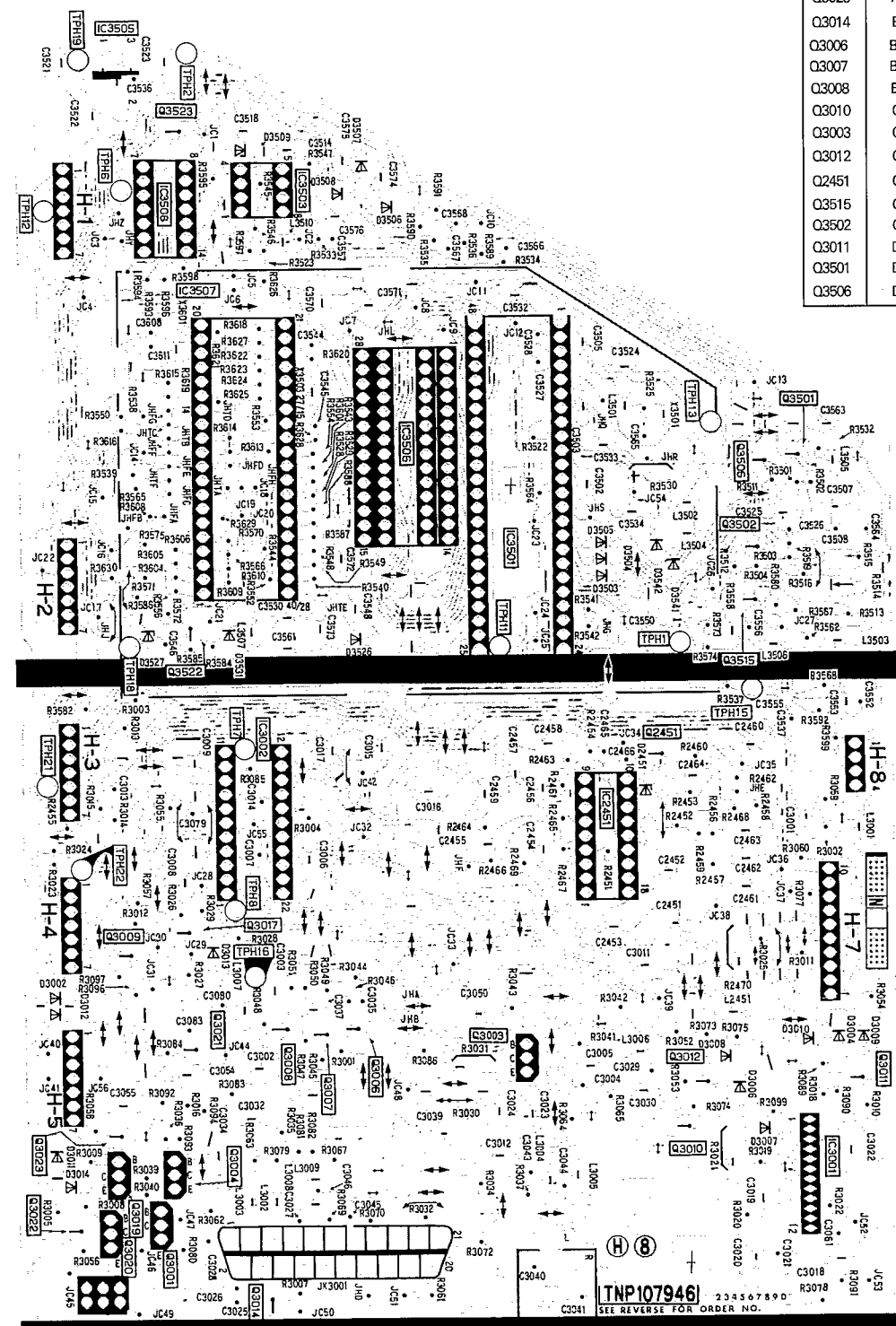
| B-BOARD IC | | B-BOARD Diode | |
|------------|----|---------------|----|
| IC2004 | A3 | D2003 | C3 |
| IC179 | A5 | D176 | D1 |
| IC2102 | B4 | D174 | D1 |
| IC178 | B5 | D173 | D1 |
| IC101 | C2 | D2001 | D2 |
| IC2002 | C3 | D2004 | D3 |
| IC2101 | C3 | Test Points | |
| IC2001 | D3 | TPB15 | A2 |
| Transistor | | TPB33 | A3 |
| Q2202 | A2 | TPB31 | A4 |
| Q2204 | A3 | TPB2 | A5 |
| Q2203 | A3 | TPB6 | A5 |
| Q105 | B1 | TPB21 | A5 |
| Q104 | B1 | TPB41 | A5 |
| Q2101 | B1 | TPB24 | B1 |
| Q180 | B3 | TPB20 | B2 |
| Q2105 | B4 | TPB23 | B3 |
| Q2006 | B4 | TPB32 | B3 |
| Q101 | C2 | TPB104 | B4 |
| Q102 | D1 | TPB8 | B4 |
| Q2004 | D3 | TPB5 | B4 |
| Q2002 | D3 | TPB30 | B5 |
| Q2003 | D3 | TPB14 | C1 |
| | | TPB37 | C1 |
| | | TPB12 | C1 |
| | | TPB13 | C2 |
| | | TPB40 | C3 |
| | | TPB47 | C3 |
| | | TPB9 | C3 |
| | | TPB25 | D1 |
| | | TPB4 | D1 |
| | | TPB1 | D2 |
| | | TPB46 | D2 |
| | | TPB29 | D2 |
| | | TPB7 | D3 |
| | | TPB27 | D3 |
| | | TPB43 | D3 |
| | | TPB45 | D3 |
| | | TPB44 | D3 |
| | | TPB3 | D4 |



H BOARD TNP107946

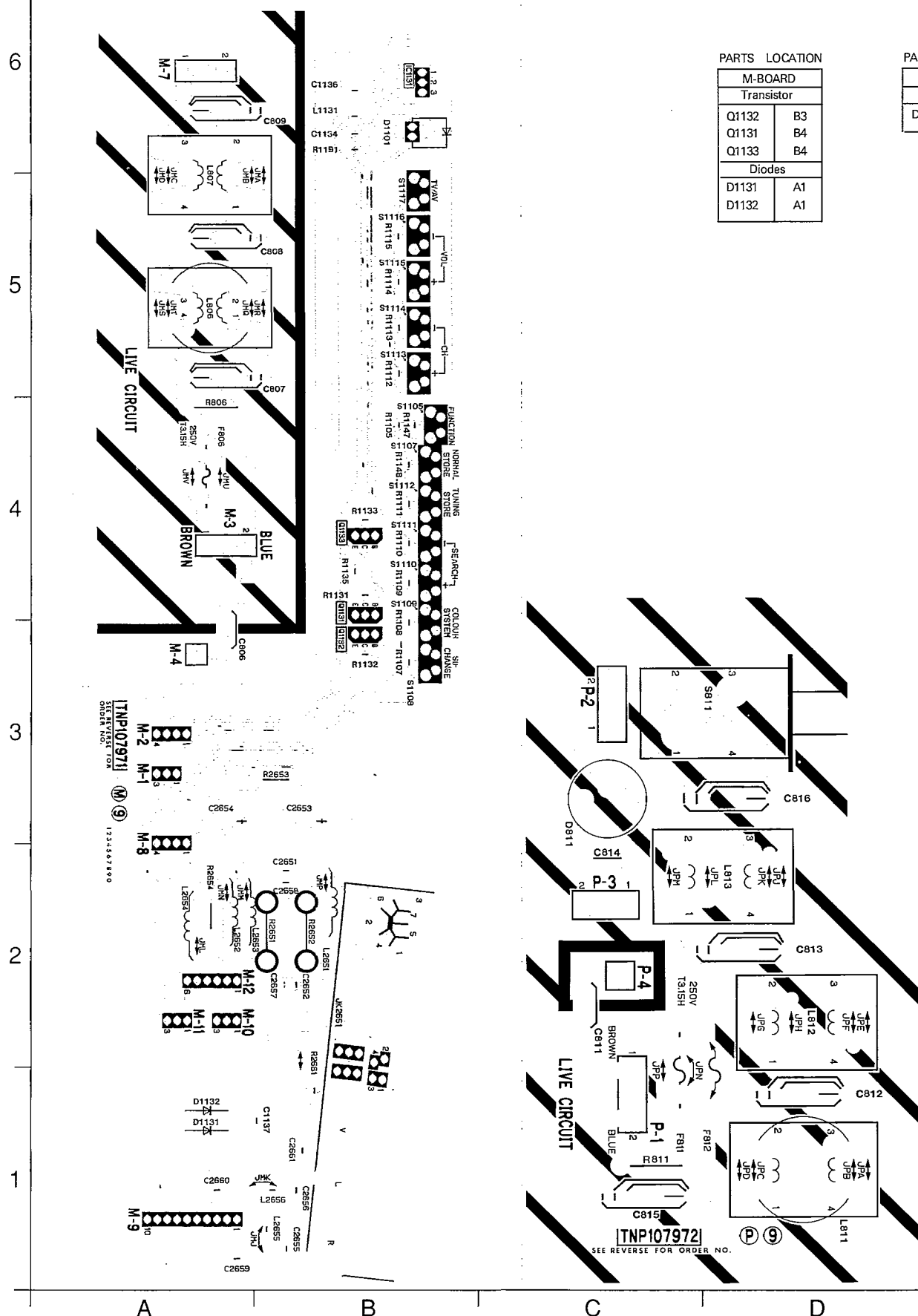
PARTS LOCATION

| H-BOARD IC | | H-BOARD Diode | |
|------------|----|---------------|----|
| IC3505 | A5 | D3011 | A1 |
| IC3508 | A5 | D3014 | A1 |
| IC3002 | B3 | D3002 | A2 |
| IC3507 | B4 | D3012 | A2 |
| IC3503 | B5 | D3527 | A3 |
| IC2451 | C2 | D3531 | B3 |
| IC3501 | C4 | D3508 | B3 |
| IC3001 | D1 | D3526 | B3 |
| | | D3513 | B3 |
| | | D3509 | B5 |
| | | D3507 | B5 |
| | | D3506 | B5 |
| | | D3006 | C2 |
| | | D2451 | C3 |
| | | D3503 | C3 |
| | | D3504 | C3 |
| | | D3505 | C3 |
| | | D3541 | C4 |
| | | D3542 | C4 |
| | | D3007 | D1 |
| | | D3008 | D2 |
| | | D3004 | D2 |
| | | D3009 | D2 |
| | | D3010 | D2 |
| Transistor | | Test Points | |
| Q3019 | A1 | TPH6 | A5 |
| Q3020 | A1 | TPH12 | A5 |
| Q3022 | A1 | TPH19 | A5 |
| Q3023 | A1 | TPH18 | A3 |
| Q3001 | A1 | TPH21 | A3 |
| Q3004 | A1 | TPH22 | A2 |
| Q3009 | A2 | TPH2 | B5 |
| Q3017 | A2 | TPH7 | B3 |
| Q3522 | A3 | TPH8 | B2 |
| Q3523 | A5 | TPH16 | B2 |
| Q3014 | B1 | TPH1 | C3 |
| Q3006 | B2 | TPH11 | C3 |
| Q3007 | B2 | TPH13 | C4 |
| Q3008 | B2 | TPH15 | D3 |
| Q3010 | C1 | | |
| Q3003 | C2 | | |
| Q3012 | C2 | | |
| Q2451 | C3 | | |
| Q3515 | C3 | | |
| Q3502 | C4 | | |
| Q3011 | D2 | | |
| Q3501 | D4 | | |
| Q3506 | D4 | | |



X-25X1

P BOARD TNP107972



SCHEMATIC DIAGRAM FOR MODELS TX-28/25X1 (ALPHA-4 CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Notes

1. RESISTOR

All resistors are carbon 1/4W resistor, unless marked.
Unit of resistance is OHM (Ω) (K=1,000, M=1,000,000).

: Nonflammable : Metal Oxide : Solid : Wire Wound
 : Metal Film : Fuse

2. CAPACITOR

All capacitors are ceramic 50V capacitors, unless marked as follows:
Unit of capacitance is μ F, unless otherwise stated.

: Temperature Compensation : Polyester : Metallised Polyester
 : Polypropylene : Dipped Tantalum : Z-Type
 : Electrolytic NP : Bipolar

3. COIL

Unit of inductance is μ H, unless otherwise stated.

4. TEST POINT

: Test Point position : Waveform Test Point position

5. EARTH SYMBOL

: Chassis Earth (Cold) : Line Earth (Hot)

6. VOLTAGE MEASUREMENT

Voltage is measured by a DC voltmeter. Measurement conditions are as follows:

| | |
|-----------------------|------------------------|
| Power source | AC 240V, 50Hz |
| Receiving Signal | Colour Bar signal (RF) |
| All customer controls | Maximum position |

7.

: Indicates the Video signal path
 : Indicates the Audio signal path
 : Indicates the Vertical/Horizontal signal path

8. This schematic diagram is the latest at the time of printing and is subject to change without notice.

Remarks

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection. The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are COLD.

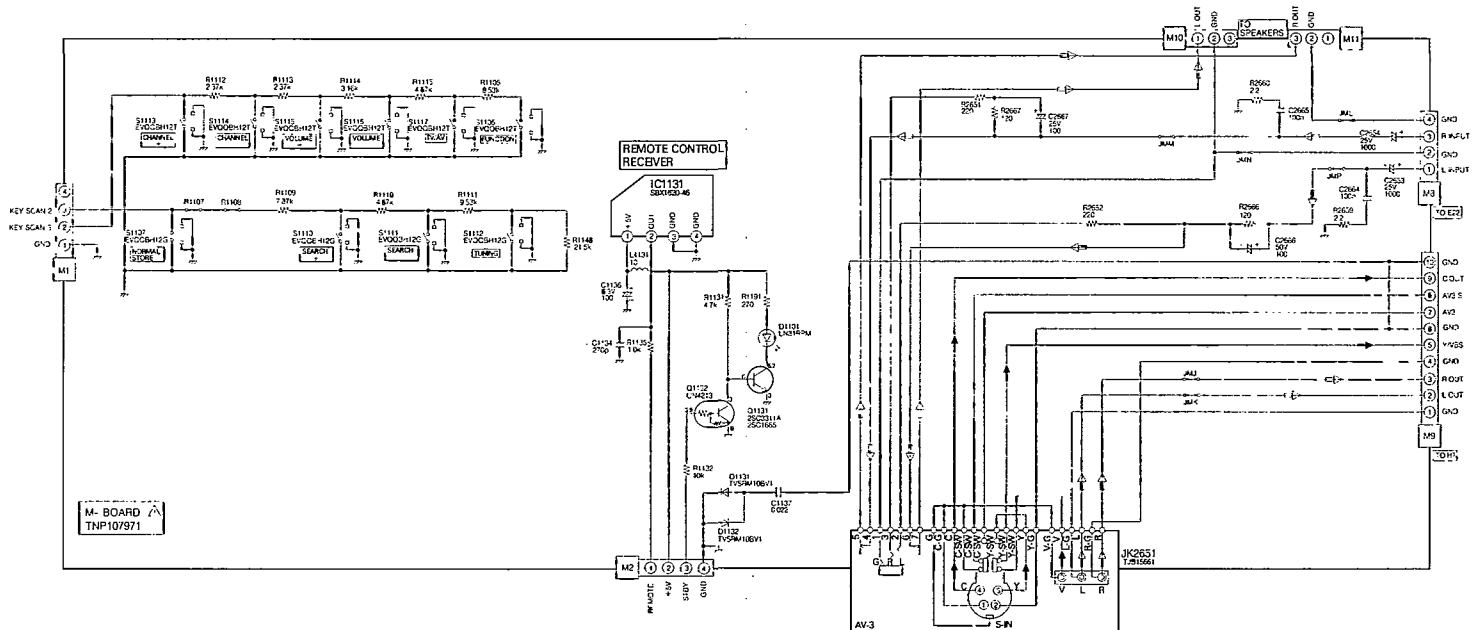
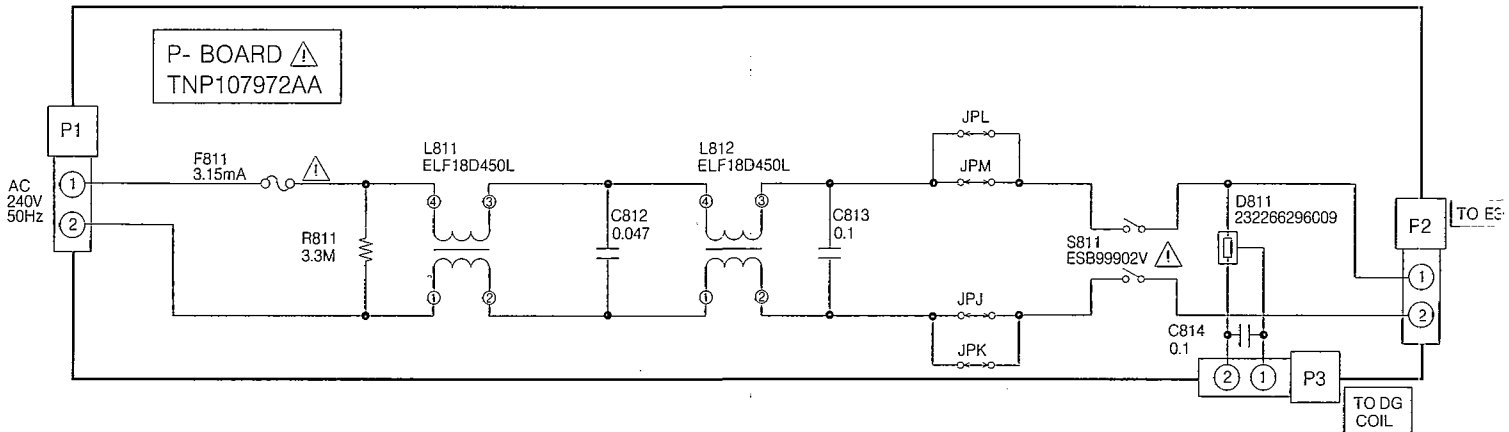
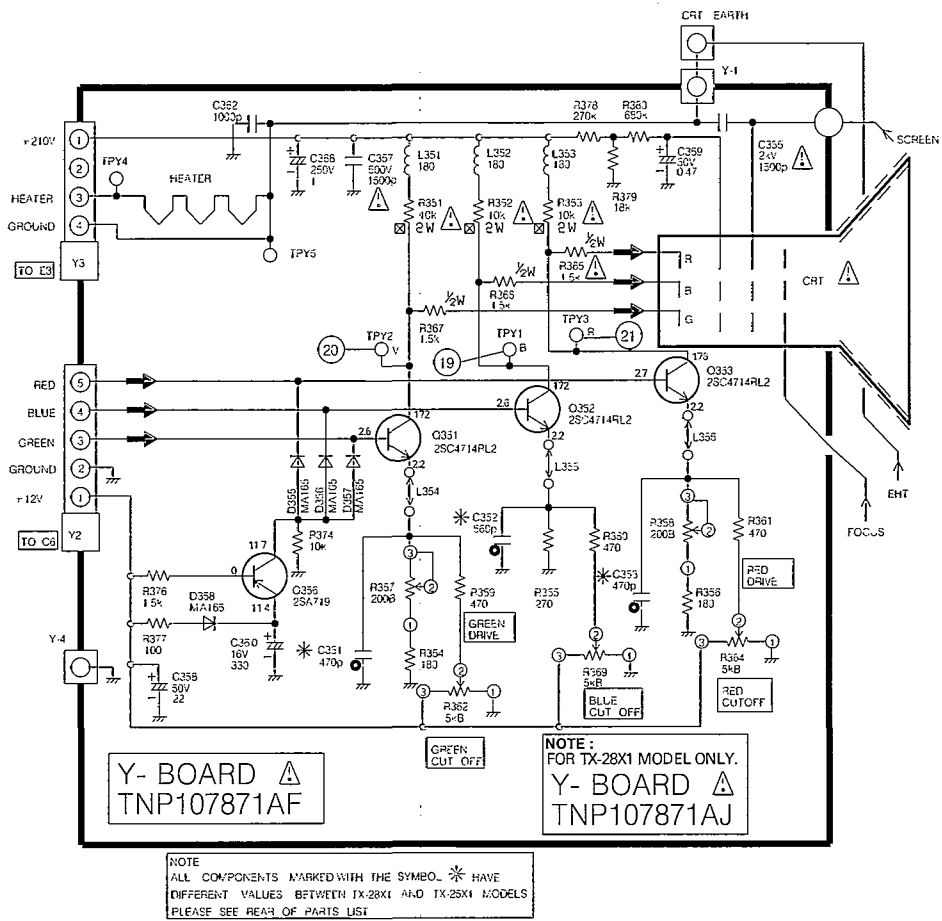
Precautions

- a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
- b. Do not short-circuit the hot and cold circuits as electrical components may be damaged.
- c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously, as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
- d. Make sure to disconnect the power plug before removing the chassis.

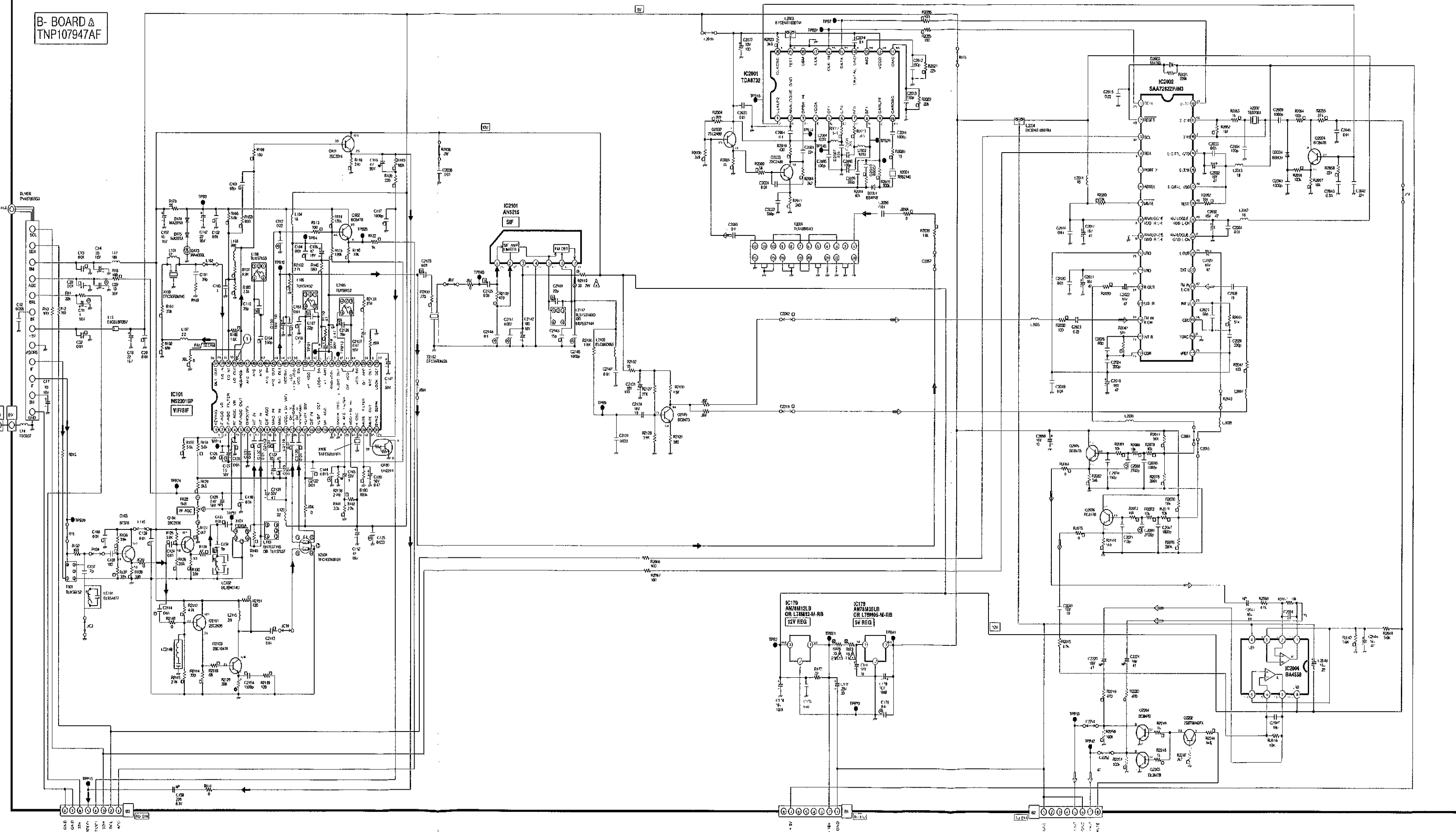
2. The following resistors are fusible safety components, and are rated at the following values :

| | | |
|------|-------------|----------------|
| Ref: | Part number | Current rating |
| R451 | TSF19801 | 800mA |

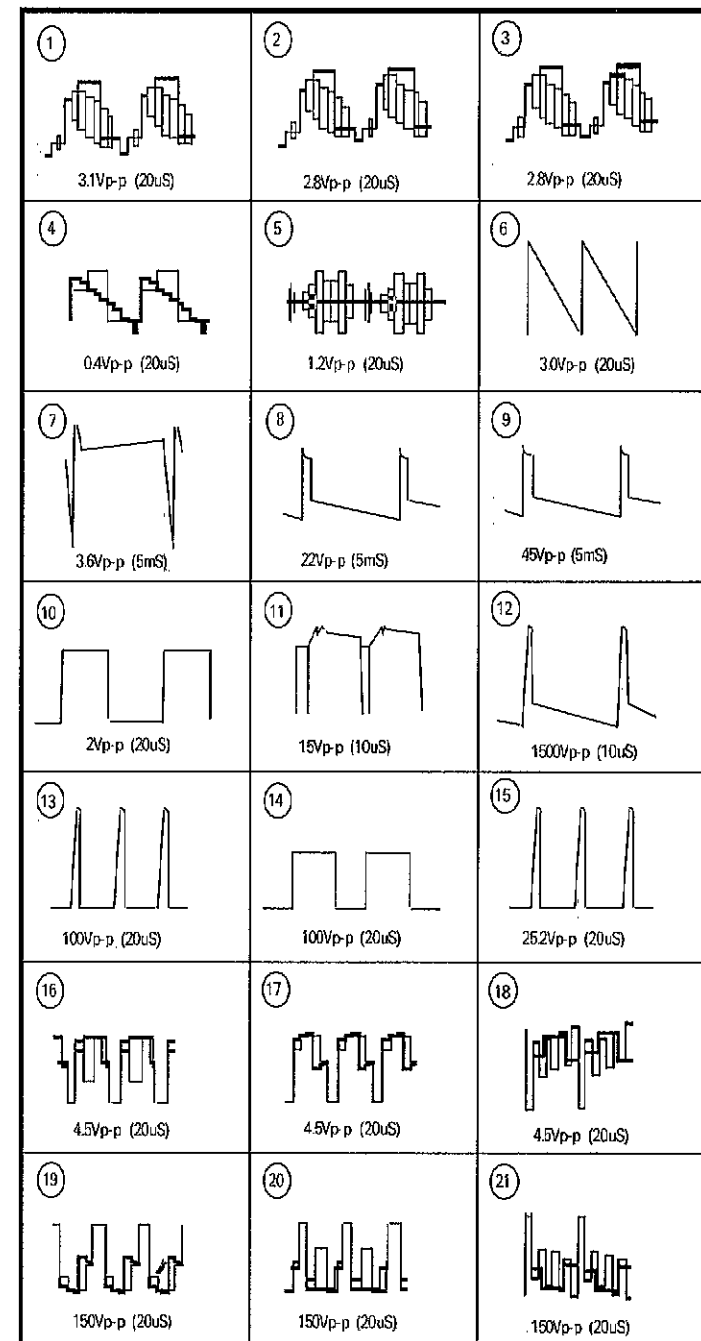
X-28X1
X-25X1

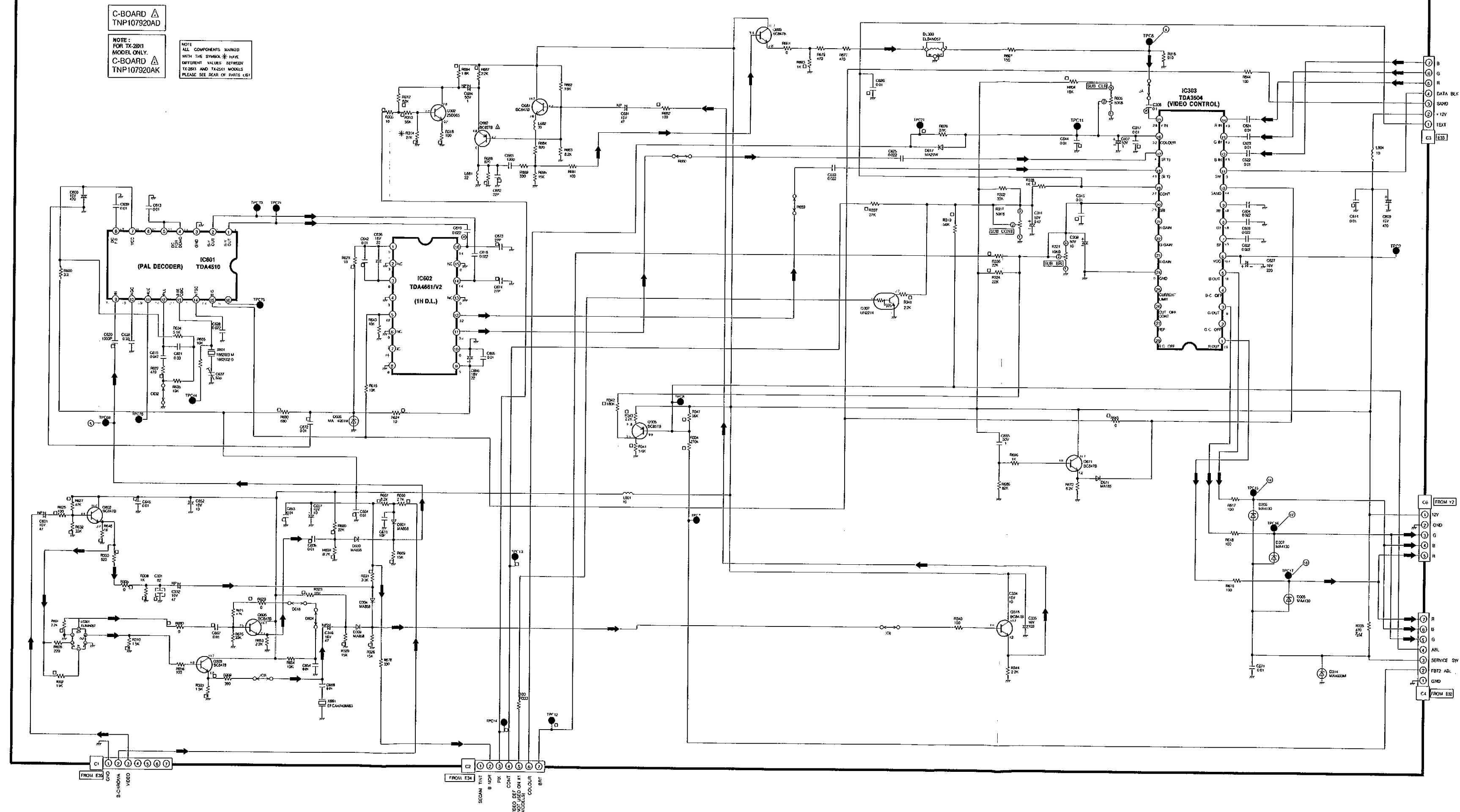


B- BOARD
TNP107947AF



WAVEFORM PATTERNS

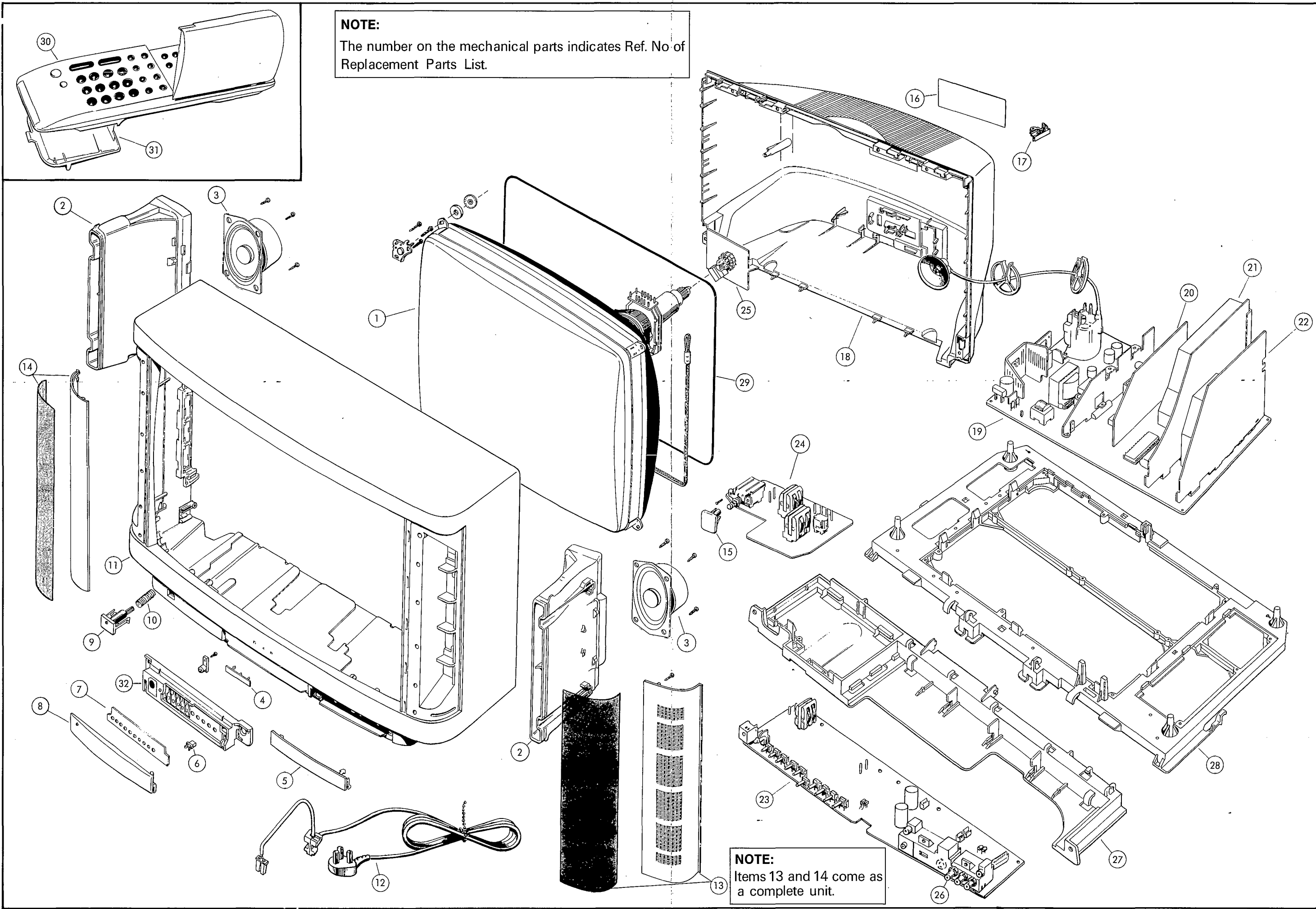




PARTS LOCATION

NOTE:

The number on the mechanical parts indicates Ref. No. of Replacement Parts List.



REPLACEMENT PARTS LIST

Important Safety Notice

Components identified by Δ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

| Ref No. | Part No. | Description |
|--------------------------------------|--------------|----------------------------------|
| MISCELLANEOUS COMPONENTS | | |
| 1) | A66EDN43X38 | C.R.T. Δ |
| 2/3) | EAG1207CG | SPEAKER (PARTS 2/3 ARE ONE ITEM) |
| 4) | TBM153010 | PANASONIC BADGE |
| 5) | TKP1812282 | AV DOOR |
| 6) | TEK6935 | LID SWITCH |
| 7) | TBM170612 | INDICATION SHEET |
| 8) | TKP1813001 | DOOR |
| 9) | TBX2883901 | POWER BUTTON |
| 10) | TES2268 | SPRING |
| 11) | TKY188103 | FRONT CABINET Δ |
| 12) | TSX8E0010 | A.C. CORD Δ |
| 13) | TKP1813021 | SPEAKER PANEL (RIGHT) |
| 14) | TKP1813031 | SPEAKER PANEL (LEFT) |
| 15) | TKK188514 | BUTTON SPACER |
| 16) | TBM170619 | REAR COVER LABEL |
| 17) | TKR27801 | REAR COVER FIXING CLIP |
| 18) | TKU320103 | REAR COVER Δ |
| 19) | TNP197078AK | E P.C.B. Δ |
| 20) | TNP107920AK | C P.C.B. Δ |
| 21) | TNP107946AA | H P.C.B. Δ |
| 22) | TNP107947AF | B P.C.B. Δ |
| 23) | TNP107971 | M P.C.B. Δ |
| 24) | TNP107972AA | P P.C.B. Δ |
| 25) | TNP107871AJ | Y P.C.B. Δ |
| 26) | TJB15661 | AV TERMINAL BLOCK (FRONT) |
| 27) | TMW27188-1 | M/P- BOARD CHASSIS BRACKET |
| 28) | TMX17134-1 | E- BOARD CHASSIS BRACKET |
| 29) | TLK259096N | DEGAUSS COIL |
| 30) | TNQ8E0454 | REMOTE CONTROL |
| 31) | UR51EC749 | BATTERY COVER |
| 32) | TKP1812991 | CONTROL BRACKET ASSY |
| | TQB8E0775 | INSTRUCTION BOOK Δ |
| | TS2730 | TV STAND (SEE REAR OF P/LIST) |
| TNR1 | ENV87865G3 | TUNER Δ |
| | TPC1949301 | OUTER CARTON |
| | TPD191574-1 | TOP CUSHION |
| | TPD192569-1 | BOTTOM CUSHION |
| | TKP17A0101 | SMOKED PANEL |
| | TKP1813011 | LED HOLDER |
| | TKZ179228-1 | C.R.T. FIXING METAL |
| | EYF52BC | FUSE HOLDER Δ |
| | F9-4-220 | RELAY Δ |
| F811 | 2153.15H | FUSE Δ |
| MISCELLANEOUS COMPONENTS FOR TX-25X1 | | |
| 1) | A59JMZ143X02 | C.R.T. Δ |
| 11) | TKY188503 | FRONT CABINET Δ |
| 16) | TBM170616 | REAR COVER LABEL |
| 18) | TKU321102 | REAR COVER Δ |
| 19) | TNP197078AH | E P.C.B. Δ |
| 20) | TNP107920AD | C P.C.B. Δ |
| 25) | TNP107871AF | Y PCB Δ |
| | TPC1949201 | OUTER CARTON |
| | TPD8E536-1 | TOP CUSHION |
| | TPD8E537-1 | BOTTOM CUSHION |
| | TS2720 | TV STAND (SEE REAR OF P/LIST) |

| Ref No. | Part No. | Description |
|------------|--------------|----------------------------|
| WIRE LINKS | | |
| | JBE.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JBK.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JBL.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JBNA.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JBR.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JBZ.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JHFA.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JHFB.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JHFD.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JHFE.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JHFF.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JHFG.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JHFK.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JHR.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JHS.K | ERJ6GMY0R00 S.M. WIRE LINK |
| | JHTB.K | ERJ6GMY0R00 S.M. WIRE LINK |
| CAPACITORS | | |
| C011 | ECEA1HFS010 | ELECT 50V 1μF |
| C012 | ECQB1H683K | FILM 50V 68nF |
| C013 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C014 | ECEA1CU330 | ELECT 16V 33μF |
| C017 | ECEA1CU100 | ELECT 16V 10μF |
| C018 | ECEA0JKS220 | ELECT 6.3V 22μF |
| C020 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C029 | ECEA1VFS100 | ELECT 35V 10μF |
| C030 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C032 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C070 | ECEA1HGE010 | ELECT 50V 1μF |
| C102 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C103 | ECUV1H010CCN | S.M. CAP 50V 1pF |
| C104 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C105 | ECEA1CU470 | ELECT 16V 47μF |
| C107 | ECUV1H220JRN | S.M. CAP 50V 22pF |
| C110 | ECUV1H390JSN | S.M. CAP 50V 39pF |
| C112 | ECQM1H224J | FILM 50V 220nF |
| C116 | ECEA1HU4R7 | ELECT 50V 4.7μF |
| C117 | ECUV1H102KBN | S.M. CAP 50V 1nF |
| C122 | ECEA1CU470 | ELECT 16V 47μF |
| C123 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C124 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C125 | ECQB1H333J | FILM 50V 33nF |
| C126 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C127 | ECEA1HFS1R5 | ELECT 50V 1.5μF |
| C128 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C129 | ECEA1HNR47 | ELECT 50V 0.47μF |
| C130 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C131 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C132 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C133 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C134 | ECUV1H090DCN | S.M. CAP 50V 9pF |
| C138 | ECUV1H101KG | S.M. CAP 50V 100pF |
| C139 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C142 | ECEA1CU220 | ELECT 16V 22μF |
| C144 | ECQB1H153K | FILM 50V 15nF |

| Ref No. | Part No. | Description |
|---------|--------------|----------------------|
| C145 | ECEA1HN010 | ELECT 50V 1μF |
| C147 | ECEA1HU010 | ELECT 50V 1μF |
| C149 | ECEA1HUR47 | ELECT 50V 0.47μF |
| C150 | ECEA1CU100 | ELECT 16V 10μF |
| C151 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C152 | ECEA1CU470 | ELECT 16V 47μF |
| C154 | ECUV1H151JG | S.M. CAP 50 150pF |
| C157 | ECEA1CU100 | ELECT 16V 10μF |
| C158 | ECUV1H020CCN | S.M. CAP 50V 2pF |
| C159 | ECEA0JU221 | ELECT 6.3V 220μF |
| C160 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C161 | ECUV1H680JG | S.M. 50V 68pF |
| C174 | ECEA1CU102 | ELECT 16V 1000μF |
| C175 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C176 | ECEA1CU100 | ELECT 16V 10μF |
| C177 | ECEA1EU330 | ELECT 25V 33μF |
| C178 | ECEA1AGE102 | ELECT 10V 1000μF |
| C179 | ECQM1H104J | FILM 50V 100nF |
| C180 | ECEA1HUR47 | ELECT 50V 0.47μF |
| C201 | ECEA1EU221 | ELECT 25V 220μF |
| C253 | ECEA1CU100 | ELECT 16V 10μF |
| C254 | ECEA1HN3R3 | ELECT 50 3.3μF |
| C255 | ECEA1HN3R3 | ELECT 50V 3.3μF |
| C258 | ECQM1H474J | FILM 50V 470nF |
| C259 | ECEA1AU101 | ELECT 10V 100μF |
| C260 | ECQM1H474J | FILM 50V 470nF |
| C261 | ECQB1H562K | FILM 50V 5.6nF |
| C264 | ECEA1HU4R7 | ELECT 50V 4.7μF |
| C269 | ECEA1AU101 | ELECT 10V 100μF |
| C271 | ECQB1H562K | FILM 50V 5.6nF |
| C272 | ECEA1VU472 | ELECT 35V 4700μF |
| C277 | ECEA1EU101 | ELECT 25V 100μF |
| C278 | ECEA1HU4R7 | ELECT 50V 4.7μF |
| C308 | ECQM1H104J | FILM 50V 100nF |
| C309 | ECEA1HU100 | ELECT 50V 10μF |
| C311 | ECEA1HUR47 | ELECT 50V 0.47μF |
| C315 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C317 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C331 | ECUV1H820JCG | S.M. CAP 50V 82pF |
| C332 | ECEA1CN470 | ELECT 16V 47μF |
| C335 | ECEA1CU101 | ELECT 16V 100μF |
| C346 | ECEA1CN470 | ELECT 16V 47μF |
| C351 | ECCR1H471J | CERAMIC 50V 470pF |
| C352 | ECCR1H561J | CERAMIC 50V 560pF |
| C353 | ECCR1H471J | CERAMIC 50V 470pF |
| C355 | ECKC3D152J | CERAMIC 2KV 1.5nF Δ |
| C357 | ECKC2H152J | CERAMIC 500V 1.5nF Δ |
| C358 | ECEA1HU220 | ELECT 50V 22μF |
| C360 | ECEA1CU331 | ELECT 16V 330μF |
| C362 | ECKC1H102J | CERAMIC 50V 1000pF |
| C368 | ECEA2EU010 | ELECT 250V 1μF |
| C369 | ECEA1HUR47 | ELECT 50V 0.47μF |
| C400 | ECKC1H103JB | CERAMIC 50V 10nF |
| C401 | ECQM1H334J | FILM 50V 330nF |
| C402 | ECQM1H334J | FILM 50V 330nF |
| C452 | ECKC2H471J | CERAMIC 500V 470pF Δ |
| C453 | ECQB1H153K | FILM 50V 15nF |
| C454 | ECEA1HFS4R7 | ELECT 50V 4.7μF |
| C455 | ECEA1HGE101 | ELECT 50V 100μF |
| C456 | ECEA1VU222 | ELECT 35V 2200μF |
| C457 | ECQM1H474J | FILM 50V 470nF |
| C458 | ECEA1VU332 | ELECT 35V 3300μF |
| C459 | ECQM1H334J | FILM 50V 330nF |
| C460 | ECQM1H224J | FILM 50V 220nF |
| C461 | ECQM1H474J | FILM 50V 470nF |
| C462 | ECQB1H223K | FILM 50V 22nF |
| C501 | ECQM1H104J | FILM 50V 100nF |
| C502 | ECQP1152GZ | FILM 100V 1.5nF |
| C503 | ECQB1H473K | FILM 50V 47nF |
| C504 | ECEA1CU102 | ELECT 16V 1000μF |
| C505 | ECCR1H680J | CERAMIC 50V 68pF |

| Ref No. | Part No. | Description |
|---------|--------------|----------------------|
| C506 | ECEA1HU220 | ELECT 50V 22μF |
| C507 | ECEA1HU4R7 | ELECT 50V 4.7μF |
| C508 | ECEA1CU470 | ELECT 16V 47μF |
| C510 | ECQB1H682K | FILM 50V 6.8nF |
| C515 | ECQB1H122J | FILM 50V 1.2nF |
| C517 | ECQM1H104J | FILM 50V 100nF |
| C518 | ECEA1CU100 | ELECT 16V 10μF |
| C519 | ECEA1CU330 | ELECT 16V 33μF |
| C520 | ECEA1VU4R7 | ELECT 35V 4.7μF |
| C522 | ECEA1CN100 | ELECT 16V 10μF |
| C531 | ECQM1103KZ | FILM 100V 10nF |
| C532 | ECKC1H821J | CERAMIC 50V 820pF |
| C541 | ECEA1HU2R2 | ELECT 50V 2.2μF |
| C542 | ECEA1JGE100 | ELECT 63V 10μF |
| C543 | ECEA1CU100 | ELECT 16V 10μF |
| C551 | ECEA2CG010 | ELECT 160V 1μF |
| C552 | ECWF2H684J | FILM 500V 470nF Δ |
| C553 | ECEA2CU3R3 | ELECT 160V 3.3μF |
| C554 | ECEA2EU330 | ELECT 250V 330μF |
| C555 | ECKC2H471J | CERAMIC 500V 470pF Δ |
| C556 | ECKC3D182JB | CERAMIC 2KV 1.8nF Δ |
| C557 | ECKC3D182JB | CERAMIC 2KV 1.8nF Δ |
| C558 | ECWH12H822J | CERAMIC 500V 8.2nF Δ |
| C560 | ECWF2H514J | FILM 500V 510nF Δ |
| C564 | ECQM10223JZ | FILM 1KV 22nF |
| C565 | ECKC3D152J | CERAMIC 2KV 1.5nF Δ |
| C566 | ECKC2H471J | CERAMIC 500V 470pF Δ |
| C569 | ECQM1H104J | FILM 50V 100nF |
| C576 | ECEA1CU471 | ELECT 16V 470μF |
| C600 | ECEA1CU471 | ELECT 16V 470μF |
| C601 | ECEA1CU470 | ELECT 16V 47μF |
| C602 | ECQB1H223K | FILM 50V 22nF |
| C603 | ECQB1H223K | FILM 50V 22nF |
| C604 | ECQB1H223K | FILM 50V 22nF |
| C605 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C606 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C607 | ECEA1HU010 | ELECT 50V 1μF |
| C609 | ECEA1CU471 | ELECT 16V 470μF |
| C613 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C614 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C615 | ECQB1H473K | FILM 50V 47nF |
| C618 | ECQB1H223K | FILM 50V 22nF |
| C619 | ECQB1H223K | FILM 50V 22nF |
| C620 | ECUV1H102KBN | S.M. CAP 50V 1nF |
| C621 | ECQM1H334J | FILM 50V 330nF |
| C622 | ECKC1H103JB | CERAMIC 50V 10nF |
| C623 | ECKC1H103JB | CERAMIC 50V 10nF |
| C624 | ECKC1H103JB | CERAMIC 50V 10nF |
| C625 | ECQB1H223K | FILM 50V 22nF |
| C626 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C627 | ECEA1CU221 | ELECT 16V 220μF |
| C628 | ECQB1H223K | FILM 50V 22nF |
| C633 | ECQB1H223K | FILM 50V 22nF |
| C636 | ECEA1CU220 | ELECT 16V 22μF |
| C637 | ECRLA030E53R | TRIMMER 30pF |
| C638 | ECQM1H334J | FILM 50V 330nF |
| C639 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C642 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C644 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C646 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C652 | ECEA1CU100 | ELECT 16V 10μF |
| C653 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C654 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C657 | ECEA1CU100 | ELECT 16V 10μF |
| C662 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C664 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C668 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C670 | ECUV1H100DCN | S.M. CAP 50V 10pF |
| C671 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C672 | ECUV1H103ZFG | S.M. CAP 50V 10nF |

| Ref No. | Part No. | Description | | |
|---------|--------------|-------------|-------|--------|
| C673 | ECUV1H270JG | S.M. CAP | 50V | 27pF |
| C674 | ECUV1H270JG | S.M. CAP | 50V | 27pF |
| C681 | ECEA1CN470 | ELECT | 16V | 47μF |
| C682 | ECUV1H220JCN | S.M. CAP | 50V | 22pF |
| C683 | ECUV1H101JCG | CERAMIC | 50V | 100pF |
| C684 | ECEA1HN010 | ELECT | 50V | 1μF |
| C685 | ECEA1HU010 | ELECT | 50V | 1μF |
| C702 | ECEA1HU101 | ELECT | 50V | 100μF |
| C703 | ECKC1H103JB | CERAMIC | 50V | 10nF |
| C704 | ECKC1H103JB | CERAMIC | 50V | 10nF |
| C705 | ECQB1H332K | FILM | 50V | 3.3nF |
| C706 | ECKC1H103JB | CERAMIC | 50V | 10nF |
| C707 | ECQB1H103J | FILM | 50V | 10nF |
| C708 | ECKC1H103JB | CERAMIC | 50V | 10nF |
| C812 | 222233040473 | FILM | 400V | 47nF |
| C813 | ECQM2A104KZ | FILM | 250V | 100nF |
| C814 | ECQE6104K | FILM | 600V | 100nF |
| C821 | ECKC2H472J | CERAMIC | 500V | 4.7nF |
| C822 | ECKC2H472J | CERAMIC | 500V | 4.7nF |
| C823 | ECKC2H472J | CERAMIC | 500V | 4.7nF |
| C824 | ECKC2H472J | CERAMIC | 500V | 4.7nF |
| C825 | ECOS2GG181N | ELECT | 400V | 180μF |
| C827 | ECKC1H272J | CERAMIC | 50V | 2.7nF |
| C828 | ECEA1HFS470 | ELECT | 50V | 47μF |
| C829 | ECKC2H471J | CERAMIC | 500V | 470pF |
| C831 | ECKC3D122J | CERAMIC | 2KV | 1200pF |
| C833 | ECKC2H103J | CERAMIC | 50V | 10nF |
| C834 | ECQM1H334J | FILM | 50V | 330nF |
| C836 | ECKCNS332J | CERAMIC | 1.2KV | 3.3nF |
| C851 | ECKC3D821JB | CERAMIC | 2KV | 820pF |
| C852 | ECKC2H681J | CERAMIC | 500V | 680pF |
| C853 | ECKC2H102J | CERAMIC | 500V | 1nF |
| C854 | ECEA2EG151UE | ELECT | 250V | 150μF |
| C855 | ECEA1VGE331 | ELECT | 35V | 330μF |
| C856 | ECEA1VGE102 | ELECT | 35V | 1000μF |
| C857 | ECKC2H471J | CERAMIC | 500V | 470pF |
| C858 | ECEA1EGE102 | ELECT | 25V | 1000μF |
| C859 | ECEA1EU100 | ELECT | 25V | 10μF |
| C860 | ECKC1H103JB | CERAMIC | 50V | 10nF |
| C861 | ECEA1CU101 | ELECT | 16V | 100μF |
| C863 | ECQV1H105JZ | FILM | 50V | 1μF |
| C872 | ECEA1CU100 | ELECT | 16V | 10μF |
| C880 | ECEA1HGE4R7 | ELECT | 50V | 4.7μF |
| C881 | ECEA1CGE100 | ELECT | 16V | 10μF |
| C1134 | ECKC1H271J | CERAMIC | 50V | 270pF |
| C1136 | ECEA0JU101 | ELECT | 6.3V | 100μF |
| C1137 | ECKC1H223J | CERAMIC | 50V | 22nF |
| C1201 | ECKC1H103JB | CERAMIC | 50V | 10nF |
| C1203 | ECCR1H151J | CERAMIC | 50V | 150pF |
| C1204 | ECCR1H101J | CERAMIC | 50V | 100pF |
| C1206 | ECEA1CU102 | ELECT | 16V | 1000μF |
| C1207 | ECCR1H121J | CERAMIC | 50V | 120pF |
| C1208 | ECQM1H104J | FILM | 50V | 100nF |
| C1210 | ECQM1H104J | FILM | 50V | 100nF |
| C1212 | ECEA1CU100 | ELECT | 16V | 10μF |
| C1214 | ECEA0JGE102 | ELECT | 6.3V | 1000μF |
| C1217 | ECKC1H103JB | CERAMIC | 50V | 10nF |
| C1219 | ECCR1H680J | CERAMIC | 50V | 68pF |
| C1220 | ECKC1H471J | CERAMIC | 50V | 470pF |
| C1221 | ECKC1H103JB | CERAMIC | 50V | 10nF |
| C1222 | ECEA0JU471 | ELECT | 6.3V | 470μF |
| C1227 | ECKC1H103JB | CERAMIC | 50V | 10nF |
| C1235 | ECEA1HU2R2 | ELECT | 50V | 2.2μF |
| C1236 | ECEA1HU2R2 | ELECT | 50V | 2.2μF |
| C1237 | ECKC1H472J | CERAMIC | 50V | 4.7nF |
| C1239 | ECCR1H560J | CERAMIC | 50V | 56pF |
| C1246 | ECCR1H561J | CERAMIC | 50V | 560pF |
| C1247 | ECKC1H181J | CERAMIC | 50V | 180pF |
| C1250 | EXFP6471ZF | NETWORK | | |
| C1251 | ECKC1H101J | CERAMIC | 50V | 100pF |

| Ref No. | Part No. | Description | | |
|---------|--------------|-------------|------|--------|
| C1252 | ECEA1CU100 | ELECT | 16V | 10μF |
| C1253 | ECCR1H101J | CERAMIC | 50V | 100pF |
| C1254 | ECQM1H104J | FILM | 50V | 100nF |
| C1256 | ECEA0JU102 | ELECT | 6.3V | 1000μF |
| C1257 | ECKC1H101J | CERAMIC | 50V | 100pF |
| C1259 | ECKC1H271J | CERAMIC | 50V | 270pF |
| C1260 | ECCR1H121J | CERAMIC | 50V | 120pF |
| C1262 | EXFP6471ZF | NETWORK | | |
| C1263 | ECKC1H103JB | CERAMIC | 50V | 10nF |
| C1264 | ECKC1H471J | CERAMIC | 50V | 470pF |
| C1265 | ECKC1H471J | CERAMIC | 50V | 470pF |
| C1266 | ECKC1H471J | CERAMIC | 50V | 470pF |
| C1267 | ECKC1H471J | CERAMIC | 50V | 470pF |
| C1269 | ECCR1H121J | CERAMIC | 50V | 120pF |
| C1270 | ECCR1H391J | CERAMIC | 50V | 390pF |
| C2001 | ECUV1H103ZFG | S.M. CAP | 50V | 10nF |
| C2002 | ECUV1H331JCG | S.M. CAP | 50V | 330pF |
| C2003 | ECQB1H223K | FILM | 50V | 22nF |
| C2004 | ECQM1H104J | FILM | 50V | 100nF |
| C2005 | ECUV1H101JCG | CERAMIC | 50V | 100pF |
| C2006 | ECUV1H101JCG | CERAMIC | 50V | 100pF |
| C2007 | ECUV1H330JCG | S.M. CAP | 50V | 33pF |
| C2008 | ECUV1H330JCG | S.M. CAP | 50V | 33pF |
| C2009 | ECUV1H331JCG | S.M. CAP | 50V | 330pF |
| C2010 | ECUV1H682KBN | S.M. CAP | 50V | 6800pF |
| C2011 | ECUV1H102KBN | S.M. CAP | 50V | 1nF |
| C2012 | ECUV1H151JCG | S.M. CAP | 50V | 150pF |
| C2013 | ECUV1H151JCG | S.M. CAP | 50V | 150pF |
| C2014 | ECQM1H104J | FILM | 50V | 100nF |
| C2015 | ECQM1H224J | FILM | 50V | 220nF |
| C2016 | ECUV1H103ZFG | S.M. CAP | 50V | 10nF |
| C2017 | ECEA1CU470 | ELECT | 16V | 47μF |
| C2018 | ECEA1CU470 | ELECT | 16V | 47μF |
| C2019 | ECUV1H103ZFG | S.M. CAP | 50V | 10nF |
| C2020 | ECUV1H103ZFG | S.M. CAP | 50V | 10nF |
| C2021 | ECEA1CU470 | ELECT | 16V | 47μF |
| C2022 | ECEA1CU470 | ELECT | 16V | 47μF |
| C2023 | ECEA1CN100 | ELECT | 16V | 10μF |
| C2024 | ECUV1H331JCG | S.M. CAP | 50V | 330pF |
| C2025 | ECUV1H680JCG | S.M. CAP | 50V | 68pF |
| C2026 | ECUV1H331JCG | S.M. CAP | 50V | 330pF |
| C2027 | ECUV1H680JCG | S.M. CAP | 50V | 68pF |
| C2028 | ECEA1CN100 | ELECT | 16V | 10μF |
| C2029 | ECEA1CU470 | ELECT | 16V | 47μF |
| C2030 | ECEA1CU470 | ELECT | 16V | 47μF |
| C2031 | ECUV1H103ZFG | S.M. CAP | 50V | 10nF |
| C2032 | ECEA1CU470 | ELECT | 16V | 47μF |
| C2033 | ECUV1H103ZFG | S.M. CAP | 50V | 10nF |
| C2034 | ECUV1H101JCG | CERAMIC | 50V | 100pF |
| C2035 | ECUV1H103ZFG | S.M. CAP | 50V | 10nF |
| C2037 | ECEA1AU101 | ELECT | 10V | 100μF |
| C2038 | ECUV1H103ZFG | S.M. CAP | 50V | 10nF |
| C2039 | ECUV1H102KBN | S.M. CAP | 50V | 1nF |
| C2040 | ECUV1H102KBN | S.M. CAP | 50V | 1nF |
| C2041 | ECUV1H103ZFG | S.M. CAP | 50V | 10nF |
| C2042 | ECQB1H223K | FILM | 50V | 22nF |
| C2043 | ECQM1H334J | FILM | 50V | 330nF |
| C2046 | ECEA1CU470 | ELECT | 16V | 47μF |
| C2047 | ECEA1CN100 | ELECT | 16V | 10μF |
| C2048 | ECEA1CU220 | ELECT | 16V | 22μF |
| C2049 | ECEA1CN100 | ELECT | 16V | 10μF |
| C2050 | ECEA1CU100 | ELECT | 16V | 10μF |
| C2056 | ECUV1H103ZFG | S.M. CAP | 50V | 10nF |
| C2060 | ECQM1H104J | FILM | 50V | 100nF |
| C2066 | ECUV1H102KBN | S.M. CAP | 50V | 1nF |
| C2067 | ECUV1H102KBN | S.M. CAP | 50V | 1nF |
| C2068 | ECUV1H272KBN | S.M. CAP | 50V | 2700pF |
| C2069 | ECUV1H272KBN | S.M. CAP | 50V | 2700pF |
| C2070 | ECUV1H151JCG | S.M. CAP | 50V | 150pF |
| C2071 | ECUV1H151JCG | S.M. CAP | 50V | 150pF |
| C2094 | ECUV1H180JN | S.M. CAP | 50V | 18pF |

| Ref No. | Part No. | Description |
|---------|--------------|--------------------|
| C2097 | ECUV1H180JN | S.M. CAP 50V 18pF |
| C2112 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C2113 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C2114 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C2119 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C2120 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C2121 | ECQB1H333J | FILM 50V 33nF |
| C2122 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C2123 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C2125 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C2126 | ECUV1H390JRN | S.M. CAP 50V 39pF |
| C2127 | ECEA1HUR47 | ELECT 50V 0.47μF |
| C2129 | ECEA1CN100 | ELECT 16V 10μF |
| C2131 | ECEA1CU101 | ELECT 16V 100μF |
| C2138 | ECEA1HU4R7 | ELECT 50V 4.7μF |
| C2141 | ECQB1H223K | FILM 50V 22nF |
| C2142 | ECEA1CU101 | ELECT 16V 100μF |
| C2143 | ECUV1H150JCN | S.M. CAP 50V 15pF |
| C2145 | ECQB1H102J | FILM 50V 1nF |
| C2146 | ECQM1H104J | FILM 50V 100nF |
| C2147 | ECQB1H103J | FILM 50V 10nF |
| C2149 | ECUV1H220JRN | S.M. CAP 50V 22pF |
| C2154 | ECUV1H152KBN | S.M. CAP 50V 1.5nF |
| C2220 | ECEA1CN470 | ELECT 16V 47μF |
| C2221 | ECEA1CN470 | ELECT 16V 47μF |
| C2409 | ECEA1CN100 | ELECT 16V 10μF |
| C2410 | ECEA1CN100 | ELECT 16V 10μF |
| C2411 | ECEA1HU010 | ELECT 50V 1μF |
| C2412 | ECEA1CU220 | ELECT 16V 22μF |
| C2413 | ECQB1H333J | FILM 50V 33nF |
| C2414 | ECQB1H333J | FILM 50V 33nF |
| C2416 | ECQB1H103J | FILM 50V 10nF |
| C2417 | ECEA1HUR33 | ELECT 50V 0.33μF |
| C2421 | ECEA1CU100 | ELECT 16V 10μF |
| C2422 | ECEA1CU100 | ELECT 16V 10μF |
| C2423 | ECQB1H103J | FILM 50V 10nF |
| C2424 | ECEA1HUR33 | ELECT 50V 0.33μF |
| C2425 | ECEA1CU100 | ELECT 16V 10μF |
| C2426 | ECEA1CU100 | ELECT 16V 10μF |
| C2427 | ECEA1CU100 | ELECT 16V 10μF |
| C2428 | ECQB1H103J | FILM 50V 10nF |
| C2429 | ECEA1CU470 | ELECT 16V 47μF |
| C2430 | ECEA1HU010 | ELECT 50V 1μF |
| C2431 | ECEA1CU100 | ELECT 16V 10μF |
| C2451 | ECEA1CU102 | ELECT 16V 1000μF |
| C2452 | ECEA1HN2R2 | ELECT 50V 2.2μF |
| C2453 | ECEA1CU101 | ELECT 16V 100μF |
| C2454 | ECEA1HN2R2 | ELECT 50V 2.2μF |
| C2455 | ECQB1H392J | FILM 50V 3.9nF |
| C2456 | ECEA1CU470 | ELECT 16V 47μF |
| C2457 | ECQB1H103J | FILM 50V 10nF |
| C2458 | ECQB1H123J | FILM 50V 12nF |
| C2459 | ECEA1CN100 | ELECT 16V 10μF |
| C2460 | ECEA1CN100 | ELECT 16V 10μF |
| C2461 | ECQB1H103J | FILM 50V 10nF |
| C2462 | ECQB1H223K | FILM 50V 22nF |
| C2463 | ECQB1H103J | FILM 50V 10nF |
| C2464 | ECQB1H392J | FILM 50V 3.9nF |
| C2653 | ECEA1EU102 | ELECT 25V 1000μF |
| C2654 | ECEA1EU102 | ELECT 25V 1000μF |
| C2664 | ECQM1H104J | FILM 50V 100nF |
| C2665 | ECQM1H104J | FILM 50V 100nF |
| C2666 | ECEA1HU100 | ELECT 50V 10μF |
| C2667 | ECEA1HU100 | ELECT 50V 10μF |
| C3001 | ECEA1CU471 | ELECT 16V 470μF |
| C3002 | ECEA1CU330 | ELECT 16V 33μF |
| C3003 | ECEA1CU100 | ELECT 16V 10μF |
| C3004 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C3005 | ECEA1CU100 | ELECT 16V 10μF |
| C3006 | ECEA1CN100 | ELECT 16V 10μF |
| C3007 | ECUV1H101JCG | CERAMIC 50V 100pF |

| Ref No. | Part No. | Description |
|---------|--------------|--------------------|
| C3008 | ECEA1CU221 | ELECT 16V 220μF |
| C3009 | ECEA1CU100 | ELECT 16V 10μF |
| C3011 | ECEA1CU100 | ELECT 16V 10μF |
| C3012 | ECEA1CU100 | ELECT 16V 10μF |
| C3014 | ECUV1H101JCG | CERAMIC 50V 100pF |
| C3015 | ECEA1CN100 | ELECT 16V 10μF |
| C3016 | ECEA1HU4R7 | ELECT 50V 4.7μF |
| C3017 | ECEA1HU4R7 | ELECT 50V 4.7μF |
| C3018 | ECEA1CU100 | ELECT 16V 10μF |
| C3019 | ECEA1CU100 | ELECT 16V 10μF |
| C3020 | ECEA1CU471 | ELECT 16V 470μF |
| C3021 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C3022 | ECEA1CN100 | ELECT 16V 10μF |
| C3023 | ECEA1HU4R7 | ELECT 50V 4.7μF |
| C3024 | ECEA1HU4R7 | ELECT 50V 4.7μF |
| C3029 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C3030 | ECEA1CU101 | ELECT 16V 100μF |
| C3032 | ECEA1CU220 | ELECT 16V 22μF |
| C3034 | ECEA1CU220 | ELECT 16V 22μF |
| C3035 | ECUV1H121JCG | S.M. CAP 50V 120pF |
| C3037 | ECQB1H104J | FILM 50V 100nF |
| C3039 | ECEA1CU471 | ELECT 16V 470μF |
| C3050 | ECEA1CN101 | ELECT 16V 100μF |
| C3061 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C3079 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C3167 | ECEA1CU471 | ELECT 16V 470μF |
| C3169 | ECEA1CN100 | ELECT 16V 10μF |
| C3170 | ECEA1CU471 | ELECT 16V 470μF |
| C3171 | ECEA1CN470 | ELECT 16V 47μF |
| C3172 | ECEA1HN010 | ELECT 50V 1μF |
| C3173 | ECEA1HN4R7 | ELECT 50V 4.7μF |
| C3174 | ECEA1HN010 | ELECT 50V 1μF |
| C3175 | ECEA1HN4R7 | ELECT 50V 4.7μF |
| C3176 | ECEA1HN4R7 | ELECT 50V 4.7μF |
| C3177 | ECQM1H224J | FILM 50V 220nF |
| C3301 | ECKC1H103JB | CERAMIC 50V 10nF |
| C3302 | ECEA1CU471 | ELECT 16V 470μF |
| C3303 | ECEA1HU3R3 | ELECT 50V 3.3μF |
| C3304 | ECKC1H103JB | CERAMIC 50V 10nF |
| C3306 | ECEA1CU100 | ELECT 16V 10μF |
| C3307 | ECEA1HUR47 | ELECT 50V 0.47μF |
| C3330 | ECQB1H103J | FILM 50V 10nF |
| C3331 | ECEA1CU471 | ELECT 16V 470μF |
| C3332 | ECEA1CU101 | ELECT 16V 100μF |
| C3333 | ECCR1H680J | CERAMIC 50V 68pF |
| C3334 | ECCR1H680J | CERAMIC 50V 68pF |
| C3335 | ECCR1H680J | CERAMIC 50V 68pF |
| C3502 | ECQB1H104J | FILM 50V 100nF |
| C3503 | ECQM1H334J | FILM 50V 330nF |
| C3505 | ECQB1H103J | FILM 50V 10nF |
| C3507 | ECEA1CU471 | ELECT 16V 470μF |
| C3508 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C3521 | ECQB1H104J | FILM 50V 100nF |
| C3522 | ECEA1HU2R2 | ELECT 50V 2.2μF |
| C3523 | ECEA0JU101 | ELECT 6.3V 100μF |
| C3524 | ECEA1CU101 | ELECT 16V 100μF |
| C3525 | ECEA1CU470 | ELECT 16V 47μF |
| C3526 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C3527 | ECUV1H150JCN | S.M. CAP 50V 15pF |
| C3528 | ECUV1H100DCN | S.M. CAP 50V 10pF |
| C3530 | ECEA0JU101 | ELECT 6.3V 100μF |
| C3532 | ECQB1H104J | FILM 50V 100nF |
| C3533 | ECQB1H104J | FILM 50V 100nF |
| C3534 | ECEA1CU101 | ELECT 16V 100μF |
| C3536 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C3544 | ECUV1H150JN | S.M. CAP 50V 50pF |
| C3545 | ECUV1H270JPN | S.M. CAP 50V 27pF |
| C3546 | ECUV1H103ZFG | S.M. CAP 50V 10nF |
| C3548 | ECEA0JU101 | ELECT 6.3V 100μF |
| C3550 | ECEA1HU010 | ELECT 50V 1μF |
| C3552 | ECUV1H103ZFG | S.M. CAP 50V 10nF |

| Ref No. | Part No. | Description | | |
|---------|--------------|-------------|------|-------|
| C3553 | ECEA1CU221 | ELECT | 16V | 220μF |
| C3555 | ECEA1CN330 | ELECT | 16V | 33μF |
| C3561 | ECEA1HU010 | ELECT | 50V | 1μF |
| C3563 | ECEA1CU101 | ELECT | 16V | 100μF |
| C3564 | ECUV1H103ZFG | S.M. CAP | 50V | 10nF |
| C3565 | ECUV1H102KBN | S.M. CAP | 50V | 1nF |
| C3570 | ECEA0JU471 | ELECT | 6.3V | 470μF |
| C3571 | ECQB1H104J | FILM | 50V | 100nF |
| C3573 | ECQB1H104J | FILM | 50V | 100nF |
| C3574 | ECEA1CU100 | ELECT | 16V | 10μF |
| C3575 | ECEA1CU100 | ELECT | 16V | 10μF |
| C3576 | ECEA1CU100 | ELECT | 16V | 10μF |

RESISTORS

| | | | | | |
|------|--------------|----------|-------|----|-------|
| R011 | ERD25TJ223 | CARBON | 0.25W | 5% | 22KΩ |
| R012 | ERD25TJ101 | CARBON | 0.25W | 5% | 100Ω |
| R013 | ERD25TJ101 | CARBON | 0.25W | 5% | 100Ω |
| R018 | ERJ6GMYJ101 | S.M.CARB | 0.1W | 5% | 100Ω |
| R070 | ERG3SJ223 | METAL | 3W | 5% | 22KΩ |
| R101 | ERJ6GMYJ221 | S.M.CARB | 0.1W | 5% | 220Ω |
| R102 | ERJ6GMYJ681 | S.M.CARB | 0.1W | 5% | 680Ω |
| R105 | ERJ6GMYJ332 | S.M.CARB | 0.1W | 5% | 3K3Ω |
| R106 | ERJ6GMYJ562 | S.M.CARB | 0.1W | 5% | 5K6Ω |
| R107 | ERJ6GMYJ822 | S.M.CARB | 0.1W | 5% | 8K2Ω |
| R108 | ERJ6GMYJ182 | S.M.CARB | 0.1W | 5% | 1K8Ω |
| R109 | ERJ6GMYJ101 | S.M.CARB | 0.1W | 5% | 100Ω |
| R110 | ERJ6GMYJ470 | S.M.CARB | 0.1W | 5% | 47Ω |
| R113 | ERJ6GMYJ331 | S.M.CARB | 0.1W | 5% | 330Ω |
| R114 | ERJ6GMYJ124 | S.M.CARB | 0.1W | 5% | 120KΩ |
| R115 | ERJ6GMYJ124 | S.M.CARB | 0.1W | 5% | 120KΩ |
| R116 | ERJ6GMYJ103 | S.M.CARB | 0.1W | 5% | 10KΩ |
| R118 | ERJ6GMYJ271 | S.M.CARB | 0.1W | 5% | 270Ω |
| R119 | ERJ6GMYJ184 | S.M.CARB | 0.1W | 5% | 180KΩ |
| R120 | ERJ6GMYJ331 | S.M.CARB | 0.1W | 5% | 330Ω |
| R122 | ERJ6GMYJ102 | S.M.CARB | 0.1W | 5% | 1KΩ |
| R125 | ERJ6GMYJ392 | S.M.CARB | 0.1W | 5% | 3K9Ω |
| R126 | ERJ6GMYJ392 | S.M.CARB | 0.1W | 5% | 3K9Ω |
| R127 | ERJ6GMYJ472 | S.M.CARB | 0.1W | 5% | 4K7Ω |
| R128 | EVNDCAA03B53 | RF AGC | | | 5KΩ |
| R129 | ERJ6GMYJ562 | S.M.CARB | 0.1W | 5% | 5K6Ω |
| R130 | ERJ6GMYJ331 | S.M.CARB | 0.1W | 5% | 330Ω |
| R131 | ERJ6GMYJ470 | S.M.CARB | 0.1W | 5% | 47Ω |
| R132 | ERJ6GMYJ101 | S.M.CARB | 0.1W | 5% | 100Ω |
| R136 | ERJ6GMYJ392 | S.M.CARB | 0.1W | 5% | 3K9Ω |
| R137 | ERJ6GMYJ392 | S.M.CARB | 0.1W | 5% | 3K9Ω |
| R138 | ERJ6GMYJ331 | S.M.CARB | 0.1W | 5% | 330Ω |
| R140 | ERJ6GMYJ102 | S.M.CARB | 0.1W | 5% | 1KΩ |
| R141 | ERJ6GMYJ332 | S.M.CARB | 0.1W | 5% | 3K3Ω |
| R142 | ERJ6GMYJ222 | S.M.CARB | 0.1W | 5% | 2K2Ω |
| R145 | ERJ6GMYJ561 | S.M.CARB | 0.1W | 5% | 560Ω |
| R150 | ERJ6GMYJ562 | S.M.CARB | 0.1W | 5% | 5K6Ω |
| R151 | ERJ6GMYJ562 | S.M.CARB | 0.1W | 5% | 5K6Ω |
| R153 | ERJ6GMYJ681 | S.M.CARB | 0.1W | 5% | 680Ω |
| R170 | ERD2FCG560 | CARBON | 2W | 5% | 56Ω |
| R173 | ERG1ANJ180 | METAL | 1W | 5% | 18Ω |
| R178 | ERG2ANJ330 | METAL | 2W | 5% | 33Ω |
| R180 | ERJ6GMYJ684 | S.M.CARB | 0.1W | 5% | 680KΩ |
| R181 | ERJ6GMYJ221 | S.M.CARB | 0.1W | 5% | 220Ω |
| R201 | ERD25TJ102 | CARBON | 0.25W | 5% | 1KΩ |
| R206 | ERD25TJ103 | CARBON | 0.25W | 5% | 10KΩ |
| R209 | ERD25TJ104 | CARBON | 0.25W | 5% | 100KΩ |
| R210 | ERD25TJ123 | CARBON | 0.25W | 5% | 12KΩ |
| R214 | ERD25TJ102 | CARBON | 0.25W | 5% | 1KΩ |
| R252 | ERD25TJ333 | CARBON | 0.25W | 5% | 33KΩ |
| R253 | ERD25TJ563 | CARBON | 0.25W | 5% | 56KΩ |
| R254 | ERD25TJ104 | CARBON | 0.25W | 5% | 100KΩ |
| R255 | ERD25TJ473 | CARBON | 0.25W | 5% | 47KΩ |
| R256 | ERD25TJ103 | CARBON | 0.25W | 5% | 10KΩ |
| R257 | ERD25TJ270 | CARBON | 0.25W | 5% | 27Ω |

| Ref No. | Part No. | Description | | | |
|---------|--------------|---------------|-------|----|-------|
| R258 | ERD25TJ270 | CARBON | 0.25W | 5% | 27Ω |
| R260 | ERD25TJ820 | CARBON | 0.25W | 5% | 82Ω |
| R262 | ERD25TJ122 | CARBON | 0.25W | 5% | 1K2Ω |
| R265 | ERD25TJ820 | CARBON | 0.25W | 5% | 82Ω |
| R279 | ERD25TJ333 | CARBON | 0.25W | 5% | 33KΩ |
| R282 | ERD25TJ122 | CARBON | 0.25W | 5% | 1K2Ω |
| R300 | ERJ6GMYJ821 | S.M.CARB | 0.1W | 5% | 820Ω |
| R303 | ERJ6GMYJ152 | S.M.CARB | 0.1W | 5% | 1K5Ω |
| R306 | ERJ6GMYJ100 | S.M.CARB | 0.1W | 5% | 10Ω |
| R307 | ERJ6GMYJ152 | S.M.CARB | 0.1W | 5% | 1K5Ω |
| R308 | ERJ6GMYJ102 | S.M.CARB | 0.1W | 5% | 1KΩ |
| R309 | ERJ6GMYJ391 | S.M.CARB | 0.1W | 5% | 390Ω |
| R310 | ERJ6GMYJ152 | S.M.CARB | 0.1W | 5% | 1K5Ω |
| R312 | ERJ6GMYJ823 | S.M.CARB | 0.1W | 5% | 82KΩ |
| R313 | ERJ6GMYJ563 | S.M.CARB | 0.1W | 5% | 56KΩ |
| R314 | ERJ6GMYJ273 | S.M.CARB | 0.1W | 5% | 27KΩ |
| R316 | ERJ6GMYJ911 | S.M.CARB | 0.1W | 5% | 910Ω |
| R317 | EVNDCAA03B54 | SUB CONTRAST | | | 50KΩ |
| R318 | ERJ6GMYJ101 | S.M.CARB | 0.1W | 5% | 100Ω |
| R319 | ERJ6GMYJ563 | S.M.CARB | 0.1W | 5% | 56KΩ |
| R321 | EVNDCAA03B14 | SUB BRIGHT | | | 10KΩ |
| R322 | ERJ6GMYJ333 | S.M.CARB | 0.1W | 5% | 33KΩ |
| R323 | ERJ6GMYJ183 | S.M.CARB | 0.1W | 5% | 18KΩ |
| R324 | ERJ6GMYJ223 | S.M.CARB | 0.1W | 5% | 22KΩ |
| R326 | ERJ6GMYJ153 | S.M.CARB | 0.1W | 5% | 15KΩ |
| R329 | ERJ6GMYJ153 | S.M.CARB | 0.1W | 5% | 15KΩ |
| R331 | ERJ6GMYJ332 | S.M.CARB | 0.1W | 5% | 3K3Ω |
| R333 | ERJ6GMYJ101 | S.M.CARB | 0.1W | 5% | 100Ω |
| R334 | ERJ6GMYJ274 | S.M. CARB | 0.1W | 5% | 270KΩ |
| R335 | ERDS1TJ471 | CARBON | 0.5W | 5% | 470Ω |
| R336 | ERJ6GMYJ223 | S.M.CARB | 0.1W | 5% | 22KΩ |
| R337 | ERJ6GMYJ273 | S.M.CARB | 0.1W | 5% | 27KΩ |
| R338 | ERJ6GMYJ102 | S.M.CARB | 0.1W | 5% | 1KΩ |
| R340 | ERJ6GMYJ101 | S.M.CARB | 0.1W | 5% | 100Ω |
| R341 | ERJ6GMYJ562 | S.M.CARB | 0.1W | 5% | 5K6Ω |
| R342 | ERJ6GMYJ184 | S.M.CARB | 0.1W | 5% | 180KΩ |
| R343 | ERJ6GMYJ222 | S.M.CARB | 0.1W | 5% | 2K2Ω |
| R344 | ERJ6GMYJ222 | S.M.CARB | 0.1W | 5% | 2K2Ω |
| R347 | ERJ6GMYJ563 | S.M.CARB | 0.1W | 5% | 56KΩ |
| R348 | ERJ6GMYJ222 | S.M.CARB | 0.1W | 5% | 2K2Ω |
| R351 | ERG2ANJ103 | METAL | 2W | 5% | 10KΩ |
| R352 | ERG2ANJ103 | METAL | 2W | 5% | 10KΩ |
| R353 | ERG2ANJ103 | METAL | 2W | 5% | 10KΩ |
| R354 | ERD25TJ181 | CARBON | 0.25W | 5% | 180Ω |
| R355 | ERD25TJ271 | CARBON | 0.25W | 5% | 270Ω |
| R356 | ERD25TJ181 | CARBON | 0.25W | 5% | 180Ω |
| R357 | EVN65UA00B22 | GREEN DRIVE | | | 200Ω |
| R358 | EVN65UA00B22 | RED DRIVE | | | 200Ω |
| R359 | ERD25TJ471 | CARBON | 0.25W | 5% | 470Ω |
| R360 | ERD25TJ471 | CARBON | 0.25W | 5% | 470Ω |
| R361 | ERD25TJ471 | CARBON | 0.25W | 5% | 470Ω |
| R362 | EVN65UA00B53 | GREEN CUT OFF | | | 5KΩ |
| R364 | EVN65UA00B53 | RED CUT OFF | | | 5KΩ |
| R365 | ERDS1FJ152 | CARBON | 0.5W | 5% | 1K5Ω |
| R366 | ERDS1TJ152 | CARBON | 0.5W | 5% | 1K5Ω |
| R367 | ERDS1TJ152 | CARBON | 0.5W | 5% | 1K5Ω |
| R369 | EVN65UA00B53 | BLUE CUT OFF | | | 5KΩ |
| R374 | ERD25TJ103 | CARBON | 0.25W | 5% | 10KΩ |
| R376 | ERD25TJ152 | CARBON | 0.25W | 5% | 1K5Ω |
| R377 | ERD25TJ101 | CARBON | 0.25W | 5% | 100Ω |
| R378 | ERD25TJ274 | CARBON | 0.25W | 5% | 270KΩ |
| R379 | ERD25TJ183 | CARBON | 0.25W | 5% | 18KΩ |
| R380 | ERD25TJ684 | CARBON | 0.25W | 5% | 680KΩ |
| R402 | ERD25TJ102 | CARBON | 0.25W | 5% | 1KΩ |
| R403 | ERD25TJ184 | CARBON | 0.25W | 5% | 180KΩ |
| R404 | ERD25TJ274 | CARBON | 0.25W | 5% | 270KΩ |
| R405 | EVNDCAA03B35 | VERT HEIGHT | | | 300KΩ |
| R406 | ERD25TJ105 | CARBON | 0.25W | 5% | 1MΩ |
| R407 | ERD25TJ122 | CARBON | 0.25W | 5% | 1K2Ω |
| R408 | ERD25TJ102 | CARBON | 0.25W | 5% | 1KΩ |
| R409 | ERD25TJ683 | CARBON | 0.25W | 5% | 68KΩ |

X-28X1

X-25X1

| Ref No. | Part No. | Description | | | |
|---------|--------------|---------------|----|-------|---|
| R410 | ERD25TJ563 | CARBON 0.25W | 5% | 56KΩ | |
| R411 | ERD25TJ824 | CARBON 0.25W | 5% | 820KΩ | |
| R413 | ERD25TJ823 | CARBON 0.25W | 5% | 82KΩ | |
| R414 | ERD25TJ754 | CARBON 0.25W | 5% | 750KΩ | |
| R451 | TSF19801 | FS LINK | | | △ |
| R452 | ERD25TJ432 | CARBON 0.25W | 5% | 4.3KΩ | |
| R453 | ERD25TJ332 | CARBON 0.25W | 5% | 3K3Ω | |
| R455 | ERD25TJ1R0 | CARBON 0.25W | 5% | 1Ω | |
| R456 | ERD25TJ1R5 | CARBON 0.25W | 5% | 1R5Ω | |
| R457 | ERD25TJ562 | CARBON 0.25W | 5% | 5K6Ω | |
| R458 | ERD25TJ682 | CARBON 0.25W | 5% | 6K8Ω | |
| R459 | ERD25TJ363 | CARBON 0.25W | 5% | 36KΩ | |
| R460 | ERD25TJ473 | CARBON 0.25W | 5% | 47KΩ | |
| R461 | ERD25TJ1R0 | CARBON 0.25W | 5% | 1Ω | |
| R462 | ERDS1TJ1R8 | CARBON 0.5W | 5% | 1R8Ω | |
| R466 | ERDS1TJ152 | CARBON 0.5W | 5% | 1K5Ω | |
| R468 | ERDS1TJ471 | CARBON 0.5W | 5% | 470Ω | |
| R469 | ERDS1TJ391 | CARBON 0.5W | 5% | 390Ω | |
| R470 | ERG2SJ391 | METAL 2W | 5% | 390Ω | |
| R472 | ERD25TJ392 | CARBON 0.25W | 5% | 3K9Ω | |
| R473 | ERD25TJ432 | CARBON 0.25W | 5% | 4.3KΩ | |
| R476 | ERG2ANJ331 | METAL 2W | 5% | 330Ω | |
| R500 | ERD25TJ104 | CARBON 0.25W | 5% | 100KΩ | |
| R501 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R502 | EVND4AA00B14 | HORIZ HOLD | | 10KΩ | |
| R503 | ERO25CKF3002 | METAL 0.25W | 1% | 30KΩ | △ |
| R504 | ERD25TJ562 | CARBON 0.25W | 5% | 5K6Ω | |
| R505 | ERD25TJ563 | CARBON 0.25W | 5% | 56KΩ | |
| R506 | ERD25TJ682 | CARBON 0.25W | 5% | 6K8Ω | |
| R507 | EVNDCAA03B54 | HORIZ CENT | | 50KΩ | |
| R508 | ERD25TJ273 | CARBON 0.25W | 5% | 27KΩ | |
| R510 | ERD25TJ222 | CARBON 0.25W | 5% | 2K2Ω | |
| R511 | ERD25TJ682 | CARBON 0.25W | 5% | 6K8Ω | |
| R512 | ERD25TJ820 | CARBON 0.25W | 5% | 82Ω | |
| R513 | ERD25TJ333 | CARBON 0.25W | 5% | 33KΩ | |
| R514 | ERD25TJ392 | CARBON 0.25W | 5% | 3K9Ω | |
| R515 | ERD25TJ103 | CARBON 0.25W | 5% | 10KΩ | |
| R516 | ERD25TJ562 | CARBON 0.25W | 5% | 5K6Ω | |
| R518 | ERD25TJ391 | CARBON 0.25W | 5% | 390Ω | |
| R519 | ERD25TJ562 | CARBON 0.25W | 5% | 5K6Ω | |
| R520 | ERD25TJ153 | CARBON 0.25W | 5% | 15KΩ | |
| R521 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R522 | ERD25TJ473 | CARBON 0.25W | 5% | 47KΩ | |
| R523 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R524 | ERD25TJ683 | CARBON 0.25W | 5% | 68KΩ | |
| R527 | ERO25CKF8201 | METAL 0.25W | 1% | 8K2Ω | △ |
| R528 | ERO25CKF3901 | METAL 0.25W | 1% | 3K9Ω | △ |
| R529 | ERD25TJ101 | CARBON 0.25W | 5% | 100Ω | |
| R531 | ERG2ANJ391 | METAL 2W | 5% | 390Ω | |
| R532 | ERD25TJ273 | CARBON 0.25W | 5% | 27KΩ | |
| R533 | ERD25TJ471 | CARBON 0.25W | 5% | 470Ω | |
| R534 | ERD25TJ682 | CARBON 0.25W | 5% | 6K8Ω | |
| R535 | ERD25TJ124 | CARBON 0.25W | 5% | 120KΩ | |
| R536 | ERD25TJ393 | CARBON 0.25W | 5% | 39KΩ | |
| R537 | ERD25TJ105 | CARBON 0.25W | 5% | 1MΩ | |
| R538 | ERD25TJ394 | CARBON 0.25W | 5% | 390KΩ | |
| R539 | ERQ14AJW100 | METAL 0.25W | 5% | 10Ω | △ |
| R542 | ERD25TJ474 | CARBON 0.25W | 5% | 470KΩ | |
| R543 | ERD25TJ333 | CARBON 0.25W | 5% | 33KΩ | |
| R544 | ERQ14AJ101 | METAL 0.25W | 5% | 100Ω | △ |
| R545 | ERD25TJ103 | CARBON 0.25W | 5% | 10KΩ | |
| R556 | ERQ12HJ1R2 | METAL 0.5W | 5% | 1R2Ω | △ |
| R557 | ERQ12HJ1R2 | METAL 0.5W | 5% | 1R2Ω | △ |
| R561 | ERD25TJ153 | CARBON 0.25W | 5% | 15KΩ | |
| R562 | ERDS1TJ124 | CARBON 0.5W | 5% | 120KΩ | |
| R565 | ERQ1CJP102 | METAL 1W | 5% | 1KΩ | △ |
| R568 | ERD25TJ274 | CARBON 0.25W | 5% | 270KΩ | |
| R571 | ERQ12HJ1R5 | FUSIBLE 0.5W | 5% | 1.5Ω | △ |
| R572 | ERD25TJ473 | CARBON 0.25W | 5% | 47KΩ | |
| R600 | ERQ14AJW3R3 | FUSABLE 0.25W | 5% | 3.3Ω | △ |

| Ref No. | Part No. | Description | | | |
|---------|--------------|---------------|-----|-------|---|
| R601 | ERJ6GMYJ222 | S.M.CARB 0.1W | 5% | 2K2Ω | |
| R604 | ERJ6GMYJ183 | S.M.CARB 0.1W | 5% | 18KΩ | |
| R606 | EVNDCAA03B54 | SUB COLOUR | | 50KΩ | |
| R608 | ERJ6GMYJ221 | S.M.CARB 0.1W | 5% | 220Ω | |
| R609 | ERJ6GMYJ822 | S.M.CARB 0.1W | 5% | 8K2Ω | |
| R615 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% | 10KΩ | |
| R616 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R617 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R618 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R622 | ERJ6GMYJ471 | S.M.CARB 0.1W | 5% | 470Ω | |
| R623 | ERJ6GMYJ100 | S.M.CARB 0.1W | 5% | 10Ω | |
| R624 | ERJ6GMYJ100 | S.M.CARB 0.1W | 5% | 10Ω | |
| R625 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R626 | ERJ6GMYJ273 | S.M.CARB 0.1W | 5% | 27KΩ | |
| R627 | ERJ6GMYJ473 | S.M.CARB 0.1W | 5% | 47KΩ | |
| R630 | ERJ6GMYJ681 | S.M.CARB 0.1W | 5% | 680Ω | |
| R632 | ERJ6GMYJ333 | S.M.CARB 0.1W | 5% | 33KΩ | |
| R634 | ERJ6GMYJ512 | S.M.CARB 0.1W | 5% | 5K2Ω | |
| R635 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% | 10KΩ | |
| R643 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% | 10KΩ | |
| R644 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R646 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% | 1KΩ | |
| R653 | ERJ6GMYJ222 | S.M.CARB 0.1W | 5% | 2K2Ω | |
| R654 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% | 10KΩ | |
| R656 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R665 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% | 10KΩ | |
| R667 | ERJ6GMYJ822 | S.M.CARB 0.1W | 5% | 8K2Ω | |
| R668 | ERJ6GMYJ272 | S.M.CARB 0.1W | 5% | 2K7Ω | |
| R669 | ERJ6GMYJ153 | S.M.CARB 0.1W | 5% | 15KΩ | |
| R672 | ERJ6GMYJ822 | S.M.CARB 0.1W | 5% | 8K2Ω | |
| R675 | ERJ6GMYJ472 | S.M.CARB 0.1W | 5% | 4K7Ω | |
| R676 | ERJ6GMYJ333 | S.M.CARB 0.1W | 5% | 33KΩ | |
| R677 | ERJ6GMYJ471 | S.M.CARB 0.1W | 5% | 470Ω | |
| R678 | ERJ6GMYJ331 | S.M.CARB 0.1W | 5% | 330Ω | |
| R679 | ERJ6GMYJ471 | S.M.CARB 0.1W | 5% | 470Ω | |
| R682 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R683 | ERJ6GMYJ822 | S.M.CARB 0.1W | 5% | 8K2Ω | |
| R684 | ERJ6GMYJ821 | S.M.CARB 0.1W | 5% | 820Ω | |
| R686 | ERJ6GMYJ823 | S.M.CARB 0.1W | 5% | 82KΩ | |
| R687 | ERJ6GMYJ222 | S.M.CARB 0.1W | 5% | 2K2Ω | |
| R688 | ERJ6GMYJ821 | S.M.CARB 0.1W | 5% | 820Ω | |
| R689 | ERJ6GMYJ331 | S.M.CARB 0.1W | 5% | 330Ω | |
| R690 | ERJ6GMYJ223 | S.M.CARB 0.1W | 5% | 22KΩ | |
| R691 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R692 | ERJ6GMYJ392 | S.M.CARB 0.1W | 5% | 3K9Ω | |
| R693 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% | 1KΩ | |
| R694 | ERJ6GMYJ182 | S.M.CARB 0.1W | 5% | 1K8Ω | |
| R695 | ERJ6GMYJ153 | S.M.CARB 0.1W | 5% | 15KΩ | |
| R696 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% | 1KΩ | |
| R697 | ERJ6GMYJ151 | S.M.CARB 0.1W | 5% | 150Ω | |
| R701 | ERD25TJ100 | CARBON 0.25W | 5% | 10Ω | |
| R702 | ERD25TJ150 | CARBON 0.25W | 5% | 15Ω | |
| R703 | ERD25TJ681 | CARBON 0.25W | 5% | 680Ω | |
| R704 | EVNDCAA03B15 | PARABOLA | | 100KΩ | |
| R705 | ERD25TJ472 | CARBON 0.25W | 5% | 4K7Ω | |
| R706 | ERQ14AJ100 | METAL 0.25W | 5% | 10Ω | △ |
| R707 | ERD25TJ242 | CARBON 0.25W | 5% | 2K4Ω | |
| R708 | EVNDCAA03B13 | WIDTH CONTROL | | 1KΩ | |
| R709 | ERD25TJ153 | CARBON 0.25W | 5% | 15KΩ | |
| R710 | ERD25TJ682 | CARBON 0.25W | 5% | 6K8Ω | |
| R711 | ERD25TJ393 | CARBON 0.25W | 5% | 39KΩ | |
| R712 | ERD25TJ153 | CARBON 0.25W | 5% | 15KΩ | |
| R713 | ERD25TJ393 | CARBON 0.25W | 5% | 39KΩ | |
| R714 | EVNDXAA03B33 | TRAPEZE | | 3KΩ | |
| R715 | ERD25TJ153 | CARBON 0.25W | 5% | 15KΩ | |
| R716 | ERD25TJ133 | CARBON 0.25W | 5% | 13KΩ | |
| R751 | ERQ12HJ330 | METAL 0.5W | 5% | 33Ω | △ |
| R811 | ERC12ZGK335D | SOLID 0.5W | 10% | 3M3Ω | |
| R821 | ERF5ZK2R7 | WOUND 5W | 20% | 2.7Ω | △ |
| R822 | ERG2ANJ104 | METAL 2W | 5% | 100KΩ | |

| Ref No. | Part No. | Description | | | |
|---------|--------------|----------------|----------|---|--|
| R823 | ERG2ANJ104 | METAL 2W | 5% 100KΩ | | |
| R824 | ERD25TJ222 | CARBON 0.25W | 5% 2K2Ω | | |
| R825 | ERW12PKR27 | WOUND 0.5W | 10% .27Ω | Δ | |
| R826 | ERD25TJ823 | CARBON 0.25W | 5% 82KΩ | | |
| R827 | ERQ12HJ5R6 | METAL 0.5W | 5% .R6Ω | Δ | |
| R828 | ERG2ANJ683 | METAL 2W | 5% 68KΩ | | |
| R830 | ERF2AJ560 | WOUND 2W | 5% 56Ω | Δ | |
| R831 | ERDS1TJ274 | CARBON 0.5W | 5% 270KΩ | | |
| R832 | ERDS1TJ274 | CARBON 0.5W | 5% 270KΩ | | |
| R833 | ERX1SJ6R8 | METAL 1W | 5% 6.6Ω | | |
| R834 | ERD75TAJ825 | CARBON 0.75W | 5% 8M2Ω | Δ | |
| R852 | ERQ12HKR27 | METAL 0.5W | 10% R27Ω | Δ | |
| R855 | ERG2ANJ330 | METAL 2W | 5% 33Ω | | |
| R856 | ERF2AK1R5 | WOUND 2W | 10% 1.5Ω | Δ | |
| R873 | ERD25TJ123 | CARBON 0.25W | 5% 12KΩ | | |
| R880 | ERF3AKR56 | WOUND 3W | 10% .56Ω | Δ | |
| R882 | ERD25TJ272 | CARBON 0.25W | 5% 2K7Ω | | |
| R883 | ERD25TJ471 | CARBON 0.25W | 5% 470Ω | | |
| R884 | ERD25TJ223 | CARBON 0.25W | 5% 22KΩ | | |
| R890 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R891 | ERD25TJ471 | CARBON 0.25W | 5% 470Ω | | |
| R.111 | ERJ6GMY0R00 | S.M. WIRE LINK | | | |
| R.134 | ERJ6GMY0R00 | S.M. WIRE LINK | | | |
| R.305 | ERJ6GMY0R00 | S.M. WIRE LINK | | | |
| R.629 | ERJ6GMY0R00 | S.M. WIRE LINK | | | |
| R.645 | ERJ6GMY0R00 | S.M. WIRE LINK | | | |
| R.663 | ERJ6GMY0R00 | S.M. WIRE LINK | | | |
| R.680 | ERJ6GMY0R00 | S.M. WIRE LINK | | | |
| R1105 | ERO25CKF9531 | METAL 0.25W | 1% 9K53Ω | Δ | |
| R1109 | ERO25CKF7871 | METAL 0.25W | 1% 7K87Ω | Δ | |
| R1110 | ERO25CKF4871 | METAL 0.25W | 1% 4K87Ω | Δ | |
| R1111 | ERO25CKF9531 | METAL 0.25W | 1% 9K53Ω | Δ | |
| R1112 | ERO25CKF2371 | METAL 0.25W | 1% 2K37Ω | Δ | |
| R1113 | ERO25CKF2371 | METAL 0.25W | 1% 2K37Ω | Δ | |
| R1114 | ERO25CKF3161 | METAL 0.25W | 1% 3K16Ω | Δ | |
| R1115 | ERO25CKF4871 | METAL 0.25W | 1% 4K87Ω | Δ | |
| R1117 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R1118 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R1119 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R1122 | ERD25TJ203 | CARBON 0.25W | 5% 20KΩ | | |
| R1123 | ERD25TJ912 | CARBON 0.25W | 5% 9K1Ω | | |
| R1124 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R1127 | ERD25TJ472 | CARBON 0.25W | 5% 4K7Ω | | |
| R1128 | ERD25TJ682 | CARBON 0.25W | 5% 6K8Ω | | |
| R1130 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R1131 | ERD25TJ472 | CARBON 0.25W | 5% 4K7Ω | | |
| R1132 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R1135 | ERD25TJ102 | CARBON 0.25W | 5% 1KΩ | | |
| R1148 | ERO25CKF2152 | METAL 0.25W | 1% 21K5Ω | Δ | |
| R1191 | ERD25TJ271 | CARBON 0.25W | 5% 270Ω | | |
| R1201 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R1204 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1205 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1206 | ERD25TJ102 | CARBON 0.25W | 5% 1KΩ | | |
| R1207 | ERD25TJ682 | CARBON 0.25W | 5% 6K8Ω | | |
| R1210 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1211 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R1212 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R1214 | ERD25TJ332 | CARBON 0.25W | 5% 3K3Ω | | |
| R1215 | ERG1SJ221 | METAL 1W | 5% 220Ω | | |
| R1217 | ERD25TJ823 | CARBON 0.25W | 5% 82KΩ | | |
| R1218 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1219 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1221 | ERD25TJ562 | CARBON 0.25W | 5% 5K6Ω | | |
| R1222 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1224 | ERD25TJ471 | CARBON 0.25W | 5% 470Ω | | |
| R1225 | ERD25TJ472 | CARBON 0.25W | 5% 4K7Ω | | |
| R1226 | ERDS1TJ154 | CARBON 0.5W | 5% 150KΩ | | |
| R1230 | ERD25TJ562 | CARBON 0.25W | 5% 5K6Ω | | |
| R1232 | ERD25TJ332 | CARBON 0.25W | 5% 3K3Ω | | |

| Ref No. | Part No. | Description | | | |
|---------|--------------|---------------|-----------|---|--|
| R1233 | ERD25TJ332 | CARBON 0.25W | 5% 3K3Ω | | |
| R1235 | ERD25TJ182 | CARBON 0.25W | 5% 1K8Ω | | |
| R1236 | ERD25TJ472 | CARBON 0.25W | 5% 4K7Ω | | |
| R1237 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R1238 | ERD25TJ223 | CARBON 0.25W | 5% 22KΩ | | |
| R1239 | ERD25TJ272 | CARBON 0.25W | 5% 2K7Ω | | |
| R1241 | ERD25TJ102 | CARBON 0.25W | 5% 1KΩ | | |
| R1243 | ERD25TJ153 | CARBON 0.25W | 5% 15KΩ | | |
| R1246 | ERD25TJ562 | CARBON 0.25W | 5% 5K6Ω | | |
| R1248 | ERD25TJ102 | CARBON 0.25W | 5% 1KΩ | | |
| R1250 | ERD25TJ102 | CARBON 0.25W | 5% 1KΩ | | |
| R1254 | ERD25TJ102 | CARBON 0.25W | 5% 1KΩ | | |
| R1255 | ERD25TJ222 | CARBON 0.25W | 5% 2K2Ω | | |
| R1256 | ERD25TJ102 | CARBON 0.25W | 5% 1KΩ | | |
| R1259 | ERD25TJ123 | CARBON 0.25W | 5% 12KΩ | | |
| R1260 | ERD25TJ123 | CARBON 0.25W | 5% 12KΩ | | |
| R1261 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R1262 | ERD25TJ222 | CARBON 0.25W | 5% 2K2Ω | | |
| R1264 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R1265 | ERD25TJ562 | CARBON 0.25W | 5% 5K6Ω | | |
| R1266 | ERO25CKF4302 | METAL 0.25W | 10% 43K2Ω | Δ | |
| R1283 | ERX1SJ3R3 | METAL 1W | 5% 3.3Ω | | |
| R1301 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1302 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1303 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1304 | ERD25TJ223 | CARBON 0.25W | 5% 22KΩ | | |
| R1305 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1309 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1310 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1311 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1312 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1313 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1314 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1315 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1318 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1319 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1320 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1324 | ERD25TJ221 | CARBON 0.25W | 5% 220Ω | | |
| R1325 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1326 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1327 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1328 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1331 | ERD25TJ562 | CARBON 0.25W | 5% 5K6Ω | | |
| R1332 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R1333 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1334 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1336 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ | | |
| R1337 | ERD25TJ123 | CARBON 0.25W | 5% 12KΩ | | |
| R1338 | ERD25TJ224 | CARBON 0.25W | 5% 220KΩ | | |
| R1339 | ERD25TJ101 | CARBON 0.25W | 5% 100Ω | | |
| R1345 | ERD25TJ472 | CARBON 0.25W | 5% 4K7Ω | | |
| R1347 | ERD25TJ472 | CARBON 0.25W | 5% 4K7Ω | | |
| R2004 | ERJ6GMYJ392 | S.M.CARB 0.1W | 5% 3K9Ω | | |
| R2005 | ERJ6GMYJ392 | S.M.CARB 0.1W | 5% 3K9Ω | | |
| R2006 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% 1KΩ | | |
| R2007 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ | | |
| R2008 | ERJ6GMYJ472 | S.M.CARB 0.1W | 5% 4K7Ω | | |
| R2009 | ERJ6GMYJ560 | S.M.CARB 0.1W | 5% 56Ω | | |
| R2010 | ERJ6GMYJ431 | S.M.CARB 0.1W | 5% 430Ω | | |
| R2011 | ERJ6GMYJ241 | S.M.CARB 0.1W | 5% 240Ω | | |
| R2012 | ERJ6GMYJ332 | S.M.CARB 0.1W | 5% 3K3Ω | | |
| R2013 | ERJ6GMYJ332 | S.M.CARB 0.1W | 5% 3K3Ω | | |
| R2014 | ERJ6GMYJ823 | S.M.CARB 0.1W | 5% 82KΩ | | |
| R2015 | ERJ6GMYJ472 | S.M.CARB 0.1W | 5% 4K7Ω | | |
| R2016 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ | | |
| R2019 | ERJ6GMYJ104 | S.M.CARB 0.1W | 5% 100KΩ | | |
| R2020 | ERJ6GMYJ150 | S.M.CARB 0.1W | 5% 15Ω | | |
| R2021 | ERJ6GMYJ223 | S.M.CARB 0.1W | 5% 22KΩ | | |
| R2022 | ERJ6GMYJ223 | S.M.CARB 0.1W | 5% 22KΩ | | |
| R2023 | ERJ6GMYJ392 | S.M.CARB 0.1W | 5% 3K9Ω | | |
| R2025 | ERJ6GMYJ224 | S.M.CARB 0.1W | 5% 220KΩ | | |

| Ref No. | Part No. | Description | |
|---------|-------------|----------------|----------|
| R2030 | ERJ6GMY0R00 | S.M. WIRE LINK | |
| R2032 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R2039 | ERJ6GMYJ182 | S.M.CARB 0.1W | 5% 1K8Ω |
| R2042 | ERJ6GMYJ513 | S.M.CARB 0.1W | 5% 51KΩ |
| R2043 | ERJ6GMYJ562 | S.M.CARB 0.1W | 5% 5K6Ω |
| R2044 | ERJ6GMYJ562 | S.M.CARB 0.1W | 5% 5K6Ω |
| R2045 | ERJ6GMYJ513 | S.M.CARB 0.1W | 5% 51KΩ |
| R2047 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R2049 | ERJ6GMY0R00 | S.M. WIRE LINK | |
| R2052 | ERJ6GMYJ105 | S.M.CARB 0.1W | 5% 1MΩ |
| R2053 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% 1KΩ |
| R2054 | ERJ6GMYJ104 | S.M.CARB 0.1W | 5% 100KΩ |
| R2055 | ERJ6GMYJ273 | S.M.CARB 0.1W | 5% 27KΩ |
| R2056 | ERJ6GMYJ104 | S.M.CARB 0.1W | 5% 100KΩ |
| R2057 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R2058 | ERJ6GMYJ223 | S.M.CARB 0.1W | 5% 22KΩ |
| R2060 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R2062 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R2064 | ERJ6GMYJ222 | S.M.CARB 0.1W | 5% 2K2Ω |
| R2066 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R2067 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R2070 | ERJ6GMYJ563 | S.M.CARB 0.1W | 5% 56KΩ |
| R2071 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R2072 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R2073 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R2074 | ERJ6GMYJ562 | S.M.CARB 0.1W | 5% 5K6Ω |
| R2075 | ERJ6GMY0R00 | S.M. WIRE LINK | |
| R2076 | ERJ6GMYJ394 | S.M. CARB 0.1W | 5% 390KΩ |
| R2077 | ERJ6GMYJ563 | S.M.CARB 0.1W | 5% 56KΩ |
| R2078 | ERJ6GMYJ394 | S.M. CARB 0.1W | 5% 390KΩ |
| R2079 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R2080 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R2081 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R2082 | ERJ6GMYJ562 | S.M.CARB 0.1W | 5% 5K6Ω |
| R2084 | ERJ6GMY0R00 | S.M. WIRE LINK | |
| R2085 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R2086 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R2102 | ERJ6GMYJ272 | S.M.CARB 0.1W | 5% 2K7Ω |
| R2103 | ERJ6GMYJ271 | S.M.CARB 0.1W | 5% 270Ω |
| R2109 | ERJ6GMYJ471 | S.M.CARB 0.1W | 5% 470Ω |
| R2110 | ERD2FCG330 | CARBON 2W | 2% 33Ω |
| R2112 | ERJ6GMYJ472 | S.M.CARB 0.1W | 5% 4K7Ω |
| R2114 | ERJ6GMYJ331 | S.M.CARB 0.1W | 5% 330Ω |
| R2115 | ERJ6GMYJ272 | S.M.CARB 0.1W | 5% 2K7Ω |
| R2116 | ERJ6GMYJ680 | S.M.CARB 0.1W | 5% 68Ω |
| R2120 | ERD25FYJ201 | CARBON 0.25W | 5% 200Ω |
| R2126 | ERJ6GMYJ182 | S.M.CARB 0.1W | 5% 1K8Ω |
| R2127 | ERJ6GMYJ273 | S.M.CARB 0.1W | 5% 27KΩ |
| R2128 | ERJ6GMYJ392 | S.M.CARB 0.1W | 5% 3K9Ω |
| R2129 | ERJ6GMYJ561 | S.M.CARB 0.1W | 5% 560Ω |
| R2130 | ERJ6GMYJ152 | S.M.CARB 0.1W | 5% 1K5Ω |
| R2132 | ERD2FCG330 | CARBON 2W | 2% 33Ω |
| R2133 | ERJ6GMYJ271 | S.M.CARB 0.1W | 5% 270Ω |
| R2138 | ERJ6GEYK275 | S.M.CARB 0.1W | 10% 2M7Ω |
| R2148 | ERJ6GMY0R00 | S.M. WIRE LINK | |
| R2149 | ERJ6GMYJ121 | S.M.CARB 0.1W | 5% 120Ω |
| R2151 | ERJ6GMYJ121 | S.M.CARB 0.1W | 5% 120Ω |
| R2219 | ERJ6GMYJ471 | S.M.CARB 0.1W | 5% 470Ω |
| R2220 | ERJ6GMYJ471 | S.M.CARB 0.1W | 5% 470Ω |
| R2246 | ERJ6GMYJ562 | S.M.CARB 0.1W | 5% 5K6Ω |
| R2247 | ERJ6GMYJ272 | S.M.CARB 0.1W | 5% 2K7Ω |
| R2248 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% 1KΩ |
| R2249 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% 1KΩ |
| R2250 | ERJ6GMYJ104 | S.M.CARB 0.1W | 5% 100KΩ |
| R2251 | ERJ6GMYJ104 | S.M.CARB 0.1W | 5% 100KΩ |
| R2410 | ERD25TJ102 | CARBON 0.25W | 5% 1KΩ |
| R2411 | ERD25TJ102 | CARBON 0.25W | 5% 1KΩ |
| R2412 | ERD25TJ563 | CARBON 0.25W | 5% 56KΩ |
| R2415 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ |
| R2417 | ERD25TJ102 | CARBON 0.25W | 5% 1KΩ |
| R2418 | ERD25TJ102 | CARBON 0.25W | 5% 1KΩ |

| Ref No. | Part No. | Description | |
|---------|-------------|----------------|----------|
| R2420 | ERD25TJ563 | CARBON 0.25W | 5% 56KΩ |
| R2421 | ERD25TJ102 | CARBON 0.25W | 5% 1KΩ |
| R2422 | ERD25TJ102 | CARBON 0.25W | 5% 1KΩ |
| R2426 | ERD25TJ103 | CARBON 0.25W | 5% 10KΩ |
| R2429 | ERD25TJ273 | CARBON 0.25W | 5% 27KΩ |
| R2451 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R2452 | ERJ6GMYJ153 | S.M.CARB 0.1W | 5% 15KΩ |
| R2453 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R2454 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% 1KΩ |
| R2455 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R2456 | ERJ6GMYJ223 | S.M.CARB 0.1W | 5% 22KΩ |
| R2457 | ERJ6GMYJ223 | S.M.CARB 0.1W | 5% 22KΩ |
| R2458 | ERJ6GMYJ123 | S.M.CARB 0.1W | 5% 12KΩ |
| R2459 | ERJ6GMYJ153 | S.M.CARB 0.1W | 5% 15KΩ |
| R2460 | ERJ6GMYJ104 | S.M.CARB 0.1W | 5% 100KΩ |
| R2461 | ERJ6GMYJ223 | S.M.CARB 0.1W | 5% 22KΩ |
| R2462 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% 1KΩ |
| R2463 | ERJ6GMYJ183 | S.M.CARB 0.1W | 5% 18KΩ |
| R2464 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% 1KΩ |
| R2465 | ERJ6GMYJ123 | S.M.CARB 0.1W | 5% 12KΩ |
| R2466 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R2467 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R2468 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% 1KΩ |
| R2469 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% 1KΩ |
| R2470 | ERQ14AJW560 | FUSABLE 0.25W | 5% 56Ω |
| R2651 | ERG1ANJ221 | METAL 1W | 5% 220Ω |
| R2652 | ERG1ANJ221 | METAL 1W | 5% 220Ω |
| R2659 | ERD25TJ2R2 | CARBON 0.25W | 5% 2R2Ω |
| R2660 | ERD25TJ2R2 | CARBON 0.25W | 5% 2R2Ω |
| R2666 | ERDS1TJ121 | CARBON 0.5W | 5% 120Ω |
| R2667 | ERDS1TJ121 | CARBON 0.5W | 5% 120Ω |
| R3001 | ERJ6GMYJ222 | S.M.CARB 0.1W | 5% 2K2Ω |
| R3002 | ERJ6GMY0R00 | S.M. WIRE LINK | |
| R3003 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R3004 | ERJ6GMYJ220 | S.M. CARB 0.1W | 5% 22Ω |
| R3005 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R3007 | ERJ6GMYJ563 | S.M.CARB 0.1W | 5% 56KΩ |
| R3008 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R3009 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R3010 | ERJ6GMYJ104 | S.M.CARB 0.1W | 5% 100KΩ |
| R3011 | ERJ6GMYJ750 | S.M. CARB 0.1W | 5% 75Ω |
| R3012 | ERJ6GMYJ221 | S.M.CARB 0.1W | 5% 220Ω |
| R3013 | ERJ6GMYJ471 | S.M.CARB 0.1W | 5% 470Ω |
| R3015 | ERJ6GMYJ471 | S.M.CARB 0.1W | 5% 470Ω |
| R3018 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% 1KΩ |
| R3019 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% 1KΩ |
| R3020 | ERJ6GMYJ750 | S.M. CARB 0.1W | 5% 75Ω |
| R3021 | ERQ14AJW100 | METAL 0.25W | 5% 10Ω |
| R3022 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R3023 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R3024 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R3025 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R3026 | ERJ6GMYJ563 | S.M.CARB 0.1W | 5% 56KΩ |
| R3027 | ERJ6GMYJ223 | S.M.CARB 0.1W | 5% 22KΩ |
| R3028 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R3029 | ERJ6GMYJ333 | S.M.CARB 0.1W | 5% 33KΩ |
| R3030 | ERJ6GMYJ680 | S.M.CARB 0.1W | 5% 68Ω |
| R3031 | ERDS1FYJ101 | CARBON 0.5W | 5% 100Ω |
| R3032 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R3034 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R3035 | ERJ6GMYJ561 | S.M.CARB 0.1W | 5% 560Ω |
| R3036 | ERJ6GMYJ561 | S.M.CARB 0.1W | 5% 560Ω |
| R3037 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% 100Ω |
| R3039 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R3040 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% 10KΩ |
| R3041 | ERJ6GMYJ221 | S.M.CARB 0.1W | 5% 220Ω |
| R3042 | ERJ6GMYJ682 | S.M.CARB 0.1W | 5% 6K8Ω |
| R3043 | ERJ6GMYJ682 | S.M.CARB 0.1W | 5% 6K8Ω |
| R3044 | ERJ6GMYJ222 | S.M.CARB 0.1W | 5% 2K2Ω |
| R3045 | ERJ6GMYJ222 | S.M.CARB 0.1W | 5% 2K2Ω |
| R3046 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% 1KΩ |

| Ref No. | Part No. | Description | | | |
|---------|-------------|----------------|----|-------|---|
| R3047 | ERJ6GMYJ183 | S.M.CARB 0.1W | 5% | 18KΩ | |
| R3048 | ERJ6GMYJ681 | S.M.CARB 0.1W | 5% | 680Ω | |
| R3049 | ERJ6GMYJ562 | S.M.CARB 0.1W | 5% | 5K6Ω | |
| R3050 | ERJ6GMYJ562 | S.M.CARB 0.1W | 5% | 5K6Ω | |
| R3051 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% | 1KΩ | |
| R3052 | ERJ6GMYJ473 | S.M.CARB 0.1W | 5% | 47KΩ | |
| R3053 | ERJ6GMYJ473 | S.M.CARB 0.1W | 5% | 47KΩ | |
| R3054 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% | 10KΩ | |
| R3055 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R3056 | ERJ6GMYJ273 | S.M.CARB 0.1W | 5% | 27KΩ | |
| R3057 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R3058 | ERJ6GMYJ273 | S.M.CARB 0.1W | 5% | 27KΩ | |
| R3059 | ERJ6GMYJ473 | S.M.CARB 0.1W | 5% | 47KΩ | |
| R3060 | ERJ6GMYJ473 | S.M.CARB 0.1W | 5% | 47KΩ | |
| R3061 | ERJ6GMYJ750 | S.M. CARB 0.1W | 5% | 75Ω | |
| R3062 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R3063 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R3064 | ERJ6GMYJ221 | S.M.CARB 0.1W | 5% | 220Ω | |
| R3065 | ERJ6GMYJ221 | S.M.CARB 0.1W | 5% | 220Ω | |
| R3067 | ERJ6GMYJ473 | S.M.CARB 0.1W | 5% | 47KΩ | |
| R3069 | ERJ6GMYJ473 | S.M.CARB 0.1W | 5% | 47KΩ | |
| R3070 | ERJ6GMYJ750 | S.M. CARB 0.1W | 5% | 75Ω | |
| R3072 | ERJ6GMYJ221 | S.M.CARB 0.1W | 5% | 220Ω | |
| R3073 | ERJ6GMYJ473 | S.M.CARB 0.1W | 5% | 47KΩ | |
| R3074 | ERJ6GMYJ473 | S.M.CARB 0.1W | 5% | 47KΩ | |
| R3075 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% | 10KΩ | |
| R3077 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R3078 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R3079 | ERJ6GMYJ333 | S.M.CARB 0.1W | 5% | 33KΩ | |
| R3080 | ERJ6GMYJ333 | S.M.CARB 0.1W | 5% | 33KΩ | |
| R3081 | ERJ6GMYJ333 | S.M.CARB 0.1W | 5% | 33KΩ | |
| R3082 | ERJ6GMYJ333 | S.M.CARB 0.1W | 5% | 33KΩ | |
| R3085 | ERJ6GMYJ152 | S.M.CARB 0.1W | 5% | 1K5Ω | |
| R3086 | ERJ6GMYJ152 | S.M.CARB 0.1W | 5% | 1K5Ω | |
| R3089 | ERJ6GMYOR00 | S.M. WIRE LINK | | | |
| R3090 | ERJ6GMYJ122 | S.M.CARB 0.1W | 5% | 1K2Ω | |
| R3091 | ERJ6GMYJ221 | S.M.CARB 0.1W | 5% | 220Ω | |
| R3093 | ERJ6GMYJ561 | S.M.CARB 0.1W | 5% | 560Ω | |
| R3094 | ERJ6GMYJ561 | S.M.CARB 0.1W | 5% | 560Ω | |
| R3096 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% | 10KΩ | |
| R3097 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% | 10KΩ | |
| R3099 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% | 10KΩ | |
| R3159 | ERD25TJ273 | CARBON 0.25W | 5% | 27KΩ | |
| R3160 | ERD25TJ392 | CARBON 0.25W | 5% | 3K9Ω | |
| R3161 | ERD25TJ104 | CARBON 0.25W | 5% | 100KΩ | |
| R3163 | ERD25TJ103 | CARBON 0.25W | 5% | 10KΩ | |
| R3164 | ERD25TJ103 | CARBON 0.25W | 5% | 10KΩ | |
| R3166 | ERD25TJ104 | CARBON 0.25W | 5% | 100KΩ | |
| R3167 | ERD25TJ221 | CARBON 0.25W | 5% | 220Ω | |
| R3168 | ERD25TJ750 | CARBON 0.25W | 5% | 75Ω | |
| R3169 | ERD25TJ473 | CARBON 0.25W | 5% | 47KΩ | |
| R3170 | ERD25TJ563 | CARBON 0.25W | 5% | 56KΩ | |
| R3171 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3172 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3173 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3175 | ERD25TJ101 | CARBON 0.25W | 5% | 100Ω | |
| R3176 | ERD25TJ473 | CARBON 0.25W | 5% | 47KΩ | |
| R3177 | ERD25TJ221 | CARBON 0.25W | 5% | 220Ω | |
| R3178 | ERD25TJ101 | CARBON 0.25W | 5% | 100Ω | |
| R3179 | ERD25TJ750 | CARBON 0.25W | 5% | 75Ω | |
| R3180 | ERD25TJ750 | CARBON 0.25W | 5% | 75Ω | |
| R3181 | ERD25TJ750 | CARBON 0.25W | 5% | 75Ω | |
| R3182 | ERD25TJ680 | CARBON 0.25W | 5% | 68Ω | |
| R3183 | ERD25TJ332 | CARBON 0.25W | 5% | 3K3Ω | |
| R3184 | ERD25TJ682 | CARBON 0.25W | 5% | 6K8Ω | |
| R3185 | ERD25TJ221 | CARBON 0.25W | 5% | 220Ω | |
| R3187 | ERD25TJ682 | CARBON 0.25W | 5% | 6K8Ω | |
| R3188 | ERDS1FYJ101 | CARBON 0.5W | 5% | 100Ω | Δ |
| R3189 | ERD25TJ392 | CARBON 0.25W | 5% | 3K9Ω | |
| R3190 | ERD25TJ392 | CARBON 0.25W | 5% | 3K9Ω | |
| R3191 | ERD25TJ333 | CARBON 0.25W | 5% | 33KΩ | |

| Ref No. | Part No. | Description | | | |
|---------|--------------|----------------|----|-------|---|
| R3192 | ERD25TJ563 | CARBON 0.25W | 5% | 56KΩ | |
| R3193 | ERD25TJ392 | CARBON 0.25W | 5% | 3K9Ω | |
| R3195 | ERD25TJ103 | CARBON 0.25W | 5% | 10KΩ | |
| R3196 | ERD25TJ750 | CARBON 0.25W | 5% | 75Ω | |
| R3197 | ERD25TJ103 | CARBON 0.25W | 5% | 10KΩ | |
| R3199 | ERD25TJ392 | CARBON 0.25W | 5% | 3K9Ω | |
| R3301 | ERD25TJ100 | CARBON 0.25W | 5% | 10Ω | |
| R3302 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3303 | ERD25TJ563 | CARBON 0.25W | 5% | 56KΩ | |
| R3304 | ERD25TJ123 | CARBON 0.25W | 5% | 12KΩ | |
| R3305 | ERD25TJ152 | CARBON 0.25W | 5% | 1K5Ω | |
| R3306 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3307 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3308 | ERD25TJ222 | CARBON 0.25W | 5% | 2K2Ω | |
| R3309 | ERO25CKF8201 | METAL 0.25W | 1% | 8K2Ω | Δ |
| R3310 | ERO25CKF3001 | METAL 0.25W | 1% | 3KΩ | Δ |
| R3312 | ERD25TJ101 | CARBON 0.25W | 5% | 100Ω | |
| R3313 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3314 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3315 | ERD25TJ101 | CARBON 0.25W | 5% | 100Ω | |
| R3316 | ERD25TJ472 | CARBON 0.25W | 5% | 4K7Ω | |
| R3317 | ERD25TJ753 | CARBON 0.25W | 5% | 75KΩ | |
| R3318 | ERD25TJ101 | CARBON 0.25W | 5% | 100Ω | |
| R3319 | ERD25TJ103 | CARBON 0.25W | 5% | 10KΩ | |
| R3320 | ERD25TJ100 | CARBON 0.25W | 5% | 10Ω | |
| R3322 | ERD25TJ682 | CARBON 0.25W | 5% | 6K8Ω | |
| R3323 | ERD25TJ103 | CARBON 0.25W | 5% | 10KΩ | |
| R3324 | ERD25TJ103 | CARBON 0.25W | 5% | 10KΩ | |
| R3325 | ERD25TJ562 | CARBON 0.25W | 5% | 5K6Ω | |
| R3326 | ERD25TJ562 | CARBON 0.25W | 5% | 5K6Ω | |
| R3327 | ERD25TJ103 | CARBON 0.25W | 5% | 10KΩ | |
| R3328 | ERD25TJ564 | CARBON 0.25W | 5% | 560KΩ | |
| R3329 | ERD25TJ103 | CARBON 0.25W | 5% | 10KΩ | |
| R3330 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3331 | ERD2FCG100 | CARB 2W | 5% | 10Ω | |
| R3332 | ERD25TJ561 | CARBON 0.25W | 5% | 560Ω | |
| R3333 | ERD25TJ561 | CARBON 0.25W | 5% | 560Ω | |
| R3334 | ERD25TJ561 | CARBON 0.25W | 5% | 560Ω | |
| R3338 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3339 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3340 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3342 | ERD25TJ100 | CARBON 0.25W | 5% | 10Ω | |
| R3343 | ERD25TJ100 | CARBON 0.25W | 5% | 10Ω | |
| R3344 | ERD25TJ100 | CARBON 0.25W | 5% | 10Ω | |
| R3345 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3346 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3347 | ERD25TJ102 | CARBON 0.25W | 5% | 1KΩ | |
| R3348 | ERD25TJ100 | CARBON 0.25W | 5% | 10Ω | |
| R3349 | ERD25TJ100 | CARBON 0.25W | 5% | 10Ω | |
| R3350 | ERD25TJ100 | CARBON 0.25W | 5% | 10Ω | |
| R3353 | ERD25TJ561 | CARBON 0.25W | 5% | 560Ω | |
| R3354 | ERD25TJ684 | CARBON 0.25W | 5% | 680KΩ | |
| R3501 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% | 1KΩ | |
| R3502 | ERJ6GMYJ392 | S.M.CARB 0.1W | 5% | 3K9Ω | |
| R3503 | ERJ6GMYJ471 | S.M.CARB 0.1W | 5% | 470Ω | |
| R3504 | ERJ6GMYJ822 | S.M.CARB 0.1W | 5% | 8K2Ω | |
| R3511 | ERJ6GMYJ102 | S.M.CARB 0.1W | 5% | 1KΩ | |
| R3512 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% | 10KΩ | |
| R3513 | ERJ6GMYJ153 | S.M.CARB 0.1W | 5% | 15KΩ | |
| R3514 | EVND4AA00B14 | TEXT CONT | | 10KΩ | |
| R3515 | ERJ6GMYJ392 | S.M.CARB 0.1W | 5% | 3K9Ω | |
| R3516 | ERJ6GMYJ153 | S.M.CARB 0.1W | 5% | 15KΩ | |
| R3519 | ERJ6GMYJ103 | S.M.CARB 0.1W | 5% | 10KΩ | |
| R3522 | ERJ6GMYJ273 | S.M.CARB 0.1W | 5% | 27KΩ | |
| R3523 | ERJ6GMYJ101 | S.M.CARB 0.1W | 5% | 100Ω | |
| R3525 | ERJ6GMYJ332 | S.M.CARB 0.1W | 5% | 3K3Ω | |
| R3528 | ERJ6GMYOR00 | S.M. WIRE LINK | | | |
| R3529 | ERJ6GMYOR00 | S.M. WIRE LINK | | | |
| R3530 | ERQ14AJW100 | METAL 0.25W | 5% | 10Ω | Δ |
| R3532 | ERJ6GMYJ332 | S.M.CARB 0.1W | 5% | 3K3Ω | |
| R3533 | ERJ6GMYJ331 | S.M.CARB 0.1W | 5% | 330Ω | |

| Ref No. | Part No. | Description |
|---------|-------------|-------------------------|
| R3534 | ERJ6GMYJ750 | S.M. CARB 0.1W 5% 75Ω |
| R3535 | ERJ6GMYJ750 | S.M. CARB 0.1W 5% 75Ω |
| R3536 | ERJ6GMYJ750 | S.M. CARB 0.1W 5% 75Ω |
| R3537 | ERJ6GMY0R00 | S.M. WIRE LINK |
| R3539 | ERJ6GMYJ101 | S.M. CARB 0.1W 5% 100Ω |
| R3540 | ERJ6GMY0R00 | S.M. WIRE LINK |
| R3541 | ERJ6GMYJ101 | S.M. CARB 0.1W 5% 100Ω |
| R3542 | ERJ6GMYJ101 | S.M. CARB 0.1W 5% 100Ω |
| R3544 | ERJ6GMYJ103 | S.M. CARB 0.1W 5% 10KΩ |
| R3548 | ERJ6GMY0R00 | S.M. WIRE LINK |
| R3549 | ERJ6GMY0R00 | S.M. WIRE LINK |
| R3552 | ERJ6GMYJ103 | S.M. CARB 0.1W 5% 10KΩ |
| R3553 | ERJ6GMYJ105 | S.M. CARB 0.1W 5% 1MΩ |
| R3554 | ERJ6GMYJ101 | S.M. CARB 0.1W 5% 100Ω |
| R3556 | ERJ6GMY0R00 | S.M. WIRE LINK |
| R3564 | ERJ6GMYJ220 | S.M. CARB 0.1W 5% 22Ω |
| R3565 | ERJ6GMY0R00 | S.M. WIRE LINK |
| R3566 | ERJ6GMYJ103 | S.M. CARB 0.1W 5% 10KΩ |
| R3567 | ERJ6GMYJ472 | S.M. CARB 0.1W 5% 4K7Ω |
| R3568 | ERJ6GMYJ822 | S.M. CARB 0.1W 5% 8K2Ω |
| R3570 | ERJ6GMYJ103 | S.M. CARB 0.1W 5% 10KΩ |
| R3571 | ERJ6GMYJ101 | S.M. CARB 0.1W 5% 100Ω |
| R3572 | ERJ6GMYJ101 | S.M. CARB 0.1W 5% 100Ω |
| R3573 | ERJ6GMYJ331 | S.M. CARB 0.1W 5% 330Ω |
| R3574 | ERJ6GMYJ391 | S.M. CARB 0.1W 5% 390Ω |
| R3580 | ERJ6GMYJ101 | S.M. CARB 0.1W 5% 100Ω |
| R3582 | ERJ6GMYJ103 | S.M. CARB 0.1W 5% 10KΩ |
| R3584 | ERJ6GMYJ473 | S.M. CARB 0.1W 5% 47KΩ |
| R3585 | ERJ6GMYJ473 | S.M. CARB 0.1W 5% 47KΩ |
| R3586 | ERJ6GMYJ472 | S.M. CARB 0.1W 5% 4K7Ω |
| R3587 | ERJ6GMY0R00 | S.M. WIRE LINK |
| R3588 | ERJ6GMY0R00 | S.M. WIRE LINK |
| R3589 | ERJ6GMYJ181 | S.M. CARB 0.1W 5% 180Ω |
| R3590 | ERJ6GMYJ181 | S.M. CARB 0.1W 5% 180Ω |
| R3591 | ERJ6GMYJ181 | S.M. CARB 0.1W 5% 180Ω |
| R3592 | ERJ6GMYJ101 | S.M. CARB 0.1W 5% 100Ω |
| R3593 | ERJ6GMYJ473 | S.M. CARB 0.1W 5% 47KΩ |
| R3594 | ERJ6GMYJ332 | S.M. CARB 0.1W 5% 3K3Ω |
| R3595 | ERJ6GMYJ473 | S.M. CARB 0.1W 5% 47KΩ |
| R3596 | ERJ6GMYJ332 | S.M. CARB 0.1W 5% 3K3Ω |
| R3597 | ERJ6GMYJ104 | S.M. CARB 0.1W 5% 100KΩ |
| R3598 | ERJ6GMYJ104 | S.M. CARB 0.1W 5% 100KΩ |
| R3599 | ERJ6GMYJ101 | S.M. CARB 0.1W 5% 100Ω |
| R3608 | ERJ6GMY0R00 | S.M. WIRE LINK |
| R.16 | ERJ6GMY0R00 | S.M. WIRE LINK |

DIODES

| | | |
|------|-----------|-------|
| D070 | MA1300MTA | DIODE |
| D173 | MA4056 | DIODE |
| D174 | MA29TA5 | DIODE |
| D175 | MA29TA5 | DIODE |
| D201 | MA165TA5 | DIODE |
| D206 | MA165TA5 | DIODE |
| D207 | MA165TA5 | DIODE |
| D209 | MA4056 | DIODE |
| D210 | MA165TA5 | DIODE |
| D250 | MA165TA5 | DIODE |
| D251 | MA700TA5 | DIODE |
| D252 | MA700TA5 | DIODE |
| D304 | MA858TA5 | DIODE |
| D305 | MA4130 | DIODE |
| D306 | MA4130 | DIODE |
| D307 | MA4130 | DIODE |
| D309 | MA858TA5 | DIODE |
| D314 | MA4033 | DIODE |
| D355 | MA165TA5 | DIODE |
| D356 | MA165TA5 | DIODE |
| D357 | MA165TA5 | DIODE |
| D358 | MA165TA5 | DIODE |

| Ref No. | Part No. | Description |
|---------|--------------|-----------------|
| D451 | BYD31D-26MM | DIODE |
| D452 | MA165TA5 | DIODE |
| D453 | MA165TA5 | DIODE |
| D501 | ERA15-02V3 | DIODE |
| D502 | MA700TA5 | DIODE |
| D503 | MA165TA5 | DIODE |
| D504 | MA4051 | DIODE |
| D505 | MA165TA5 | DIODE |
| D511 | MA4047 | DIODE |
| D533 | MA4091 | DIODE |
| D534 | MA165TA5 | DIODE |
| D541 | MA4360 | DIODE |
| D551 | BYD31D-26MM | DIODE |
| D552 | MA167TA5 | DIODE |
| D554 | BYD31D-26MM | DIODE |
| D560 | MA165TA5 | DIODE |
| D600 | MA858TA5 | DIODE |
| D601 | MA858TA5 | DIODE |
| D605 | MA4051 | DIODE |
| D617 | MA29TA5 | DIODE |
| D671 | MA165TA5 | DIODE |
| D701 | MA165TA5 | DIODE |
| D702 | MA4360 | DIODE |
| D751 | ERD07-15L7 | DIODE |
| D752 | TVSRU2AM | DIODE |
| D811 | 232266296009 | DIODE |
| D821 | D4SB80 | DIODE |
| D822 | ERA22-04V3 | DIODE |
| D823 | ERA22-08V3 | DIODE |
| D825 | TVSRU2AM | DIODE |
| D826 | TLP621GR-LF2 | PHOTO COUPLER ▲ |
| D828 | MA4360 | DIODE |
| D851 | RU4BLF-L1 | DIODE |
| D852 | TVSRU2AM | DIODE |
| D853 | RU4AMLF-M1 | DIODE |
| D855 | FML22SLF610 | DIODE |
| D870 | MA4082 | DIODE |
| D871 | MA165TA5 | DIODE |
| D880 | MA165TA5 | DIODE |
| D890 | MA165TA5 | DIODE |
| D891 | MA165TA5 | DIODE |
| D893 | MA165TA5 | DIODE |
| D1101 | LN81RPHL | DIODE |
| D1131 | TVSRM10B | DIODE |
| D1132 | TVSRM10B | DIODE |
| D1208 | TVSS1WBS10 | DIODE |
| D1225 | MA4082 | DIODE |
| D1232 | MA4033 | DIODE |
| D1235 | MA165TA5 | DIODE |
| D1243 | MA165TA5 | DIODE |
| D1250 | MA4068HTA | DIODE |
| D1253 | MA165TA5 | DIODE |
| D1255 | MA165TA5 | DIODE |
| D1310 | MA165TA5 | DIODE |
| D1311 | MA165TA5 | DIODE |
| D2001 | BB405B | DIODE |
| D2003 | MA165TA5 | DIODE |
| D2004 | BB809 | DIODE |
| D2405 | MA4056 | DIODE |
| D2406 | MA4056 | DIODE |
| D2451 | MA4020 | DIODE |
| D3002 | MA165TA5 | DIODE |
| D3004 | MA165TA5 | DIODE |
| D3006 | MA165TA5 | DIODE |
| D3007 | MA165TA5 | DIODE |
| D3008 | MA165TA5 | DIODE |
| D3009 | MA165TA5 | DIODE |
| D3010 | MA165TA5 | DIODE |
| D3011 | MA165TA5 | DIODE |
| D3012 | MA165TA5 | DIODE |
| D3013 | MA165TA5 | DIODE |

| Ref No. | Part No. | Description |
|---------|-----------|-------------|
| D3162 | MA165TA5 | DIODE |
| D3163 | MA165TA5 | DIODE |
| D3176 | MA165TA5 | DIODE |
| D3301 | MA858TA5 | DIODE |
| D3302 | MA29TA5 | DIODE |
| D3303 | MA165TA5 | DIODE |
| D3304 | MA165TA5 | DIODE |
| D3305 | MA165TA5 | DIODE |
| D3306 | MA165TA5 | DIODE |
| D3307 | MA4068HTA | DIODE |
| D3308 | MA165TA5 | DIODE |
| D3309 | MA700TA5 | DIODE |
| D3310 | MA165TA5 | DIODE |
| D3311 | MA165TA5 | DIODE |
| D3503 | MA165TA5 | DIODE |
| D3504 | MA165TA5 | DIODE |
| D3505 | MA165TA5 | DIODE |
| D3526 | MA165TA5 | DIODE |
| D3527 | MA4082 | DIODE |
| D3531 | MA165TA5 | DIODE |
| D3541 | MA165TA5 | DIODE |
| D3542 | MA165TA5 | DIODE |
| DL300 | ELB4T029B | COIL |

INTEGRATED CIRCUITS

| | | |
|--------|--------------|------------------------|
| IC101 | M52301SP | I.C. VIF/SIF |
| IC178 | L78M05MRB | I.C. 5V REGULATOR |
| IC179 | L78M12MRB | I.C. 12V REGULATOR |
| IC251 | LA4280-TV | I.C. AUDIO POWER AMP |
| IC303 | TDA3504 | I.C. VIDEO CONTROL |
| IC451 | TDA3654 | I.C. VERTICAL OUT |
| IC501 | TDA2579B | I.C. DEFLECTION |
| IC601 | TDA4510 | I.C. PAL DECODER |
| IC602 | TDA4661-V2 | I.C. DELAY LINE |
| IC701 | TDA4950 | I.C. E/W CORRECTION |
| IC821 | STR56041-M | I.C. VOLTAGE REGULATOR |
| IC851 | L78M12MRB | I.C. 12V REGULATOR |
| IC1131 | SBX1620-46 | I.C. STANDBY |
| IC1202 | ST24C02AB1 | I.C. EEPROM |
| IC1204 | L78M05MRB | I.C. 5V REGULATOR |
| IC1212 | MN1280R | I.C. RESET |
| IC1213 | MN1872432TMF | I.C. MICROPROCESSOR |
| IC2001 | TDA8732 | I.C. AUDIO DEMODULATOR |
| IC2002 | SAA7282ZP-M3 | I.C. MICROPROCESSOR |
| IC2004 | BA4558 | I.C. AMP |
| IC2101 | AN5215 | I.C. SOUND I.F. |
| IC2402 | CXA1279AS | I.C. AUDIO PRE-AMP |
| IC2451 | TDA3810 | I.C. AMBIENCE CONTROL |
| IC3001 | LA7222-TV | I.C. SWITCHING |
| IC3002 | M52472P | I.C. SWITCHING |
| IC3301 | AN5860 | I.C. SWITCHING |
| IC3302 | AN5862K | I.C. SWITCHING |
| IC3501 | SAA5246APEM6 | I.C. TEXT DECODER |
| IC3505 | L78M05MRB | I.C. 5V REGULATOR |
| IC3506 | FCB61C65-70P | I.C. S RAM MEMORY |
| IC3507 | MAB8461PW216 | I.C. TEXT CONTROL |
| IC3508 | TC4066BP | I.C. SWITCHING |

COILS

| | | |
|------|-------------|------|
| L012 | ELESN181KA | COIL |
| L013 | EXCELD35V | COIL |
| L101 | ELESN120KA | COIL |
| L103 | TLT222K991R | COIL |

| Ref No. | Part No. | Description |
|---------|--------------|-------------|
| L104 | ELESN180KA | COIL |
| L105 | TLI159X52 | COIL |
| L106 | TLI157X53 | COIL |
| L107 | ELESN2R2KA | COIL |
| L110 | TLI157X57 | COIL |
| L120 | ELESN220KA | COIL |
| L351 | ELESN181KA | COIL |
| L352 | ELESN181KA | COIL |
| L353 | ELESN181KA | COIL |
| L482 | ELESN8R2KA | COIL |
| L552 | ELC08D055 | COIL |
| L553 | ELH5L713 | COIL |
| L554 | ELC15B004 | COIL |
| L601 | ELESN100KA | COIL |
| L604 | ELESN100KA | COIL |
| L681 | ELESN220KA | COIL |
| L682 | ELESN390KA | COIL |
| L701 | ELESN8R2KA | COIL |
| L751 | ELC10D006 | COIL |
| L811 | ELF18D450L | FILTER |
| L812 | ELF18D450L | FILTER |
| L823 | EXCELSA24T | COIL |
| L824 | EXCELSA24T | COIL |
| L852 | EXCELSA24T | COIL |
| L853 | TLT030L119C | COIL |
| L857 | EXCELSA35T | COIL |
| L859 | EXCELSA24T | COIL |
| L861 | EXCELD35V | COIL |
| L1131 | ELESN100KA | COIL |
| L1200 | ELEXT100KA | COIL |
| L1201 | ELEXT100KA | COIL |
| L1203 | ELEXT100KA | COIL |
| L1204 | ELKTR150GA | COIL |
| L1205 | ELESN8R2KA | COIL |
| L1206 | ELEXT100KA | COIL |
| L1210 | ELEXT100KA | COIL |
| L1220 | ELEXT100KA | COIL |
| L1223 | ELEXT100KA | COIL |
| L1232 | ELKTR150GA | COIL |
| L1233 | ELKTR150GA | COIL |
| L1234 | ELKTR150GA | COIL |
| L1235 | ELEXT100KA | COIL |
| L1236 | EXCELSA35T | COIL |
| L1240 | ELESN100KA | COIL |
| L1241 | ELEXT100KA | COIL |
| L1246 | ELEXT1R0KA | COIL |
| L1247 | ELEXT100KA | COIL |
| L1248 | ELEXT100KA | COIL |
| L1250 | ELEXT100KA | COIL |
| L1252 | ELEXT100KA | COIL |
| L1253 | ELEXT100KA | COIL |
| L1254 | ELEXT100KA | COIL |
| L1255 | ELEXT100KA | COIL |
| L2001 | ELESN102KA | COIL |
| L2002 | ELESN102KA | COIL |
| L2003 | EXCEMT103DTM | COIL |
| L2004 | EXCEMT103DTM | COIL |
| L2011 | ELESN180KA | COIL |
| L2012 | ELESN180KA | COIL |
| L2013 | ELESN180KA | COIL |
| L2105 | TLI159X52 | COIL |
| L2109 | ELC08D055 | COIL |
| L2112 | TLI153X60Q | COIL |
| L2115 | ELESN3R9KA | COIL |
| L2451 | ELESN100KA | COIL |
| L3001 | ELESN100KA | COIL |
| L3006 | ELESN100KA | COIL |
| L3161 | EXCELD35V | COIL |
| L3162 | EXCELD35V | COIL |
| L3163 | ELESN470KA | COIL |
| L3501 | ELESN4R7KA | COIL |

| Ref No. | Part No. | Description |
|--------------------|-------------|-------------|
| L3502 | ELESN100KA | COIL |
| L3503 | ELESN4R7KA | COIL |
| L3504 | ELESN100KA | COIL |
| L3505 | ELESN100KA | COIL |
| L3507 | ELESN100KA | COIL |
| L3510 | ELESN100KA | COIL |
| LC102 | EIL7EN014Q | COIL |
| LC301 | ELB4N057 | COIL |
| TRANSISTORS | | |
| Q101 | 2SC3311ATA | TRANSISTOR |
| Q102 | BC847B | TRANSISTOR |
| Q104 | 2SC2636-T | TRANSISTOR |
| Q105 | BF370 | TRANSISTOR |
| Q180 | UN2211TX | TRANSISTOR |
| Q201 | 2SA1309ATA | TRANSISTOR |
| Q250 | 2SC3311ATA | TRANSISTOR |
| Q302 | 2SD965-R | TRANSISTOR |
| Q303 | BC847B | TRANSISTOR |
| Q305 | BC857B | TRANSISTOR |
| Q307 | UN2214TX | TRANSISTOR |
| Q318 | BC847B | TRANSISTOR |
| Q351 | 2SC4714RL2 | TRANSISTOR |
| Q352 | 2SC4714RL2 | TRANSISTOR |
| Q353 | 2SC4714RL2 | TRANSISTOR |
| Q356 | 2SA719-TA | TRANSISTOR |
| Q401 | 2SC3311ATA | TRANSISTOR |
| Q502 | 2SC3311ATA | TRANSISTOR |
| Q503 | 2SC3311ATA | TRANSISTOR |
| Q531 | 2SD836-AL | TRANSISTOR |
| Q532 | 2SC3311ATA | TRANSISTOR |
| Q533 | 2SC3311ATA | TRANSISTOR |
| Q541 | 2SA1309ATA | TRANSISTOR |
| Q542 | 2SC3311ATA | TRANSISTOR |
| Q554 | 2SD1577RL | TRANSISTOR |
| Q602 | BC847B | TRANSISTOR |
| Q605 | BC847B | TRANSISTOR |
| Q671 | BC847B | TRANSISTOR |
| Q681 | BC847B | TRANSISTOR |
| Q682 | BC857B | TRANSISTOR |
| Q693 | BC847B | TRANSISTOR |
| Q701 | UN4211TA | TRANSISTOR |
| Q821 | 2SD965-R | TRANSISTOR |
| Q822 | 2SD965-R | TRANSISTOR |
| Q851 | UN4111TA | TRANSISTOR |
| Q880 | 2SA1018Q | TRANSISTOR |
| Q890 | 2SC3311ATA | TRANSISTOR |
| Q1131 | 2SC3311ATA | TRANSISTOR |
| Q1132 | UN4213TA | TRANSISTOR |
| Q1201 | 2SC3311ATA | TRANSISTOR |
| Q1215 | 2SC3311ATA | TRANSISTOR |
| Q1216 | 2SC3311ATA | TRANSISTOR |
| Q1255 | 2SC3311ATA | TRANSISTOR |
| Q2002 | 2SC2480TX | TRANSISTOR |
| Q2003 | 2SC2480TX | TRANSISTOR |
| Q2004 | BC847B | TRANSISTOR |
| Q2005 | BC847B | TRANSISTOR |
| Q2006 | BC847B | TRANSISTOR |
| Q2101 | 2SC2636-T | TRANSISTOR |
| Q2103 | 2SC1047-BCD | TRANSISTOR |
| Q2105 | BC847B | TRANSISTOR |
| Q2202 | 2SB709AQTX | TRANSISTOR |
| Q2203 | BC847B | TRANSISTOR |
| Q2204 | BC847B | TRANSISTOR |
| Q2405 | UN4216TA | TRANSISTOR |
| Q2406 | UN4216TA | TRANSISTOR |
| Q2408 | 2SC3311ATA | TRANSISTOR |
| Q2409 | 2SC3311ATA | TRANSISTOR |
| Q2410 | 2SA1309ATA | TRANSISTOR |

| Ref No. | Part No. | Description |
|---------------------|--------------|------------------------------|
| Q2451 | UN2210TX | TRANSISTOR |
| Q3001 | 2SD1865TV2 | TRANSISTOR |
| Q3003 | 2SC1318-S | TRANSISTOR |
| Q3004 | 2SD1865TV2 | TRANSISTOR |
| Q3006 | BC847B | TRANSISTOR |
| Q3007 | 2SC2480TX | TRANSISTOR |
| Q3008 | BC847B | TRANSISTOR |
| Q3009 | BC847B | TRANSISTOR |
| Q3010 | BC847B | TRANSISTOR |
| Q3011 | BC847B | TRANSISTOR |
| Q3012 | BC847B | TRANSISTOR |
| Q3014 | UN2211TX | TRANSISTOR |
| Q3017 | BC847B | TRANSISTOR |
| Q3019 | 2SD1865TV2 | TRANSISTOR |
| Q3020 | 2SD1865TV2 | TRANSISTOR |
| Q3022 | BC857B | TRANSISTOR |
| Q3023 | BC857B | TRANSISTOR |
| Q3159 | 2SA1309ATA | TRANSISTOR |
| Q3161 | 2SD1865TV2 | TRANSISTOR |
| Q3162 | 2SD1865TV2 | TRANSISTOR |
| Q3163 | 2SC3311ATA | TRANSISTOR |
| Q3164 | UN4211TA | TRANSISTOR |
| Q3165 | 2SA1309ATA | TRANSISTOR |
| Q3166 | 2SA1309ATA | TRANSISTOR |
| Q3167 | 2SC1318-S | TRANSISTOR |
| Q3168 | 2SC3311ATA | TRANSISTOR |
| Q3301 | 2SC3311ATA | TRANSISTOR |
| Q3302 | 2SC3311ATA | TRANSISTOR |
| Q3303 | 2SC3311ATA | TRANSISTOR |
| Q3304 | 2SC3311ATA | TRANSISTOR |
| Q3305 | 2SC3311ATA | TRANSISTOR |
| Q3306 | 2SC3311ATA | TRANSISTOR |
| Q3330 | 2SA1309ATA | TRANSISTOR |
| Q3331 | 2SA1309ATA | TRANSISTOR |
| Q3332 | 2SA1309ATA | TRANSISTOR |
| Q3501 | BC847B | TRANSISTOR |
| Q3502 | BC847B | TRANSISTOR |
| Q3506 | BC847B | TRANSISTOR |
| Q3515 | BC847B | TRANSISTOR |
| Q3522 | BC857B | TRANSISTOR |
| Q3523 | UN2213TX | TRANSISTOR |
| SWITCHES | | |
| S401 | EVQRBAL10 | SWITCH |
| S471 | EVQRDSL12 | SWITCH |
| S811 | ESB99902V | POWER SWITCH Δ |
| S1105 | EVQQBH12T | SWITCH |
| S1107 | EVQQBH12G | SWITCH |
| S1110 | EVQQBH12G | SWITCH |
| S1111 | EVQQBH12G | SWITCH |
| S1112 | EVQQBH12G | SWITCH |
| S1113 | EVQQBH12T | SWITCH |
| S1114 | EVQQBH12T | SWITCH |
| S1115 | EVQQBH12T | SWITCH |
| S1116 | EVQQBH12T | SWITCH |
| S1117 | EVQQBH12T | SWITCH |
| TRANSFORMERS | | |
| T531 | ETH19Y53AY | TRANSFORMER |
| T551 | TLF15570B | FLYBACK TRANSFORMER Δ |
| T821 | ETS49AC187AD | TRANSFORMER |
| T1201 | ETP35KE65E | TRANSFORMER Δ |
| T2001 | TLS158X54Q | COIL |

| Ref No. | Part No. | Description |
|----------------|-------------|-------------|
| FILTERS | | |
| X101 | F1045A | FILTER |
| X103 | EFCS6R0MW5 | FILTER |
| X106 | TAFC5B503F6 | FILTER |
| X601 | TSS2003-M | CRYSTAL |
| X661 | ECCA4R43MB3 | FILTER |

| Ref No. | Part No. | Description |
|---------|-------------|-------------|
| X1210 | EFOGC6004A4 | FILTER |
| X2001 | TSS2140-M | CRYSTAL |
| X2002 | TSS2061-N | CRYSTAL |
| X2101 | EFCH33MVK1N | FILTER |
| X2102 | EFCS6R0MS5 | FILTER |
| X3501 | TSS2121-B | CRYSTAL |
| X3503 | TSS2077-M | CRYSTAL |

COMPONENT DIFFERENCE LIST

TX-28X1 COMPONENTS

CAPACITORS

| | | | | |
|------|--------------|---------|------|--------|
| C351 | ECCR1H561J5 | CERAMIC | 50V | 560pF |
| C352 | ECCR1H681J5 | CERAMIC | 50V | 680pF |
| C353 | ECCR1H561J5 | CERAMIC | 50V | 560pF |
| C457 | ECQV1H474JV3 | FILM | 50V | 470nF |
| C462 | ECQB1H223KF3 | FILM | 50V | 22nF |
| C552 | ECWF2H684JNB | FILM | 500V | 680nF |
| C560 | ECWF2H514JNB | FILM | 500V | 510nF |
| C565 | ECKW3F152JBP | CERAMIC | 3kV | 1500pF |

RESISTORS

| | | | | |
|------|--------------|----------|-------|-------|
| R314 | ERJ6GMYJ273V | S.M.CARB | 0.1W | 27KΩ |
| R404 | ERDS2TJ274T | CARBON | 0.25W | 270KΩ |
| R453 | ERDS2TJ332T | CARBON | 0.25W | 3.3KΩ |
| R456 | ERDS2TJ1R5T | CARBON | 0.25W | 1.5Ω |
| R457 | ERDS2TJ562T | CARBON | 0.25W | 5.6KΩ |
| R458 | ERDS2TJ682T | CARBON | 0.25W | 6.8KΩ |
| R459 | ERDS2TJ363T | CARBON | 0.25W | 36KΩ |
| R460 | ERDS2TJ473 | CARBON | 0.25W | 47KΩ |
| R462 | ERDS1TJ1R8T | CARBON | 0.5W | 1.8Ω |
| R469 | ERDS1TJ391T | CARBON | 0.5W | 390Ω |
| R544 | ERQ14AJ101P | FUSABLE | 0.25W | 100Ω |
| R557 | ERQ12HJ1R2P | FUSABLE | 0.5W | 1.2Ω |
| R562 | ERDS1TJ124T | CARBON | 0.5W | 120KΩ |
| R565 | ERG2ANJP102H | METAL | 2W | 1KΩ |
| R571 | ERQ12HJ1R5P | FUSABLE | 0.5W | 1.5Ω |

COILS

| | | |
|------|----------|------|
| L553 | ELH5L713 | COIL |
|------|----------|------|

TV STAND

TX-28X1 TS2730

| | |
|-----------|------------------------------|
| TZS9EW083 | BASE CASTING ASSY |
| TZS9EW084 | UPRIGHT CASTING (RH) |
| TZS9EW085 | UPRIGHT CASTING (LH) |
| TZS9EW094 | TOP PLATE |
| TZS9EW087 | SATELLITE SHELF |
| TZS9EW102 | SATELLITE SHELF LABEL |
| TZS9EW099 | INSTRUCTION SHEET |
| TZS9EW088 | SCREW BAG CONTENTS |
| TZS9EW103 | CABLE CLAMP CLIP |
| TZS9EW090 | CASTOR BAG CONTENTS |
| TZS9EW089 | SHELF FIXING BRACKET (RH/LH) |

TX-25X1 COMPONENTS

| | | | | |
|------|--------------|---------|------|--------|
| C351 | ECCR1H471J5 | CERAMIC | 50V | 470pF |
| C352 | ECCR1H561J5 | CERAMIC | 50V | 560pF |
| C353 | ECCR1H471J5 | CERAMIC | 50V | 470pF |
| C457 | ECQV1H334JV3 | FILM | 50V | 330nF |
| C462 | N/A | | | |
| C552 | ECWF2H514JNB | FILM | 500V | 510nF |
| C560 | ECWF2H684JNB | FILM | 500V | 680nF |
| C565 | ECKW3F182JBP | CERAMIC | 3kV | 1800pF |

| | | | | |
|------|--------------|----------|-------|-------|
| R314 | ERJ6GMYJ223V | S.M.CARB | 0.1W | 22KΩ |
| R404 | ERDS2TJ224T | CARBON | 0.25W | 220KΩ |
| R453 | ERDS2TJ302T | CARBON | 0.25W | 3KΩ |
| R456 | ERDS2TJ1R0 | CARBON | 0.25W | 1RΩ |
| R457 | ERDS2TJ332T | CARBON | 0.25W | 3.3KΩ |
| R458 | ERDS2TJ472T | CARBON | 0.25W | 4.7KΩ |
| R459 | ERDS2TJ473T | CARBON | 0.25W | 47KΩ |
| R460 | ERDS2TJ273T | CARBON | 0.25W | 27KΩ |
| R462 | ERDS1TJ1R5T | CARBON | 0.5W | 1.5Ω |
| R469 | ERDS1TJ151T | CARBON | 0.5W | 150Ω |
| R544 | ERQ14AJ181P | FUSABLE | 0.25W | 180Ω |
| R557 | ERQ12HJ1R8P | FUSABLE | 0.5W | 1.8Ω |
| R542 | ERDS1TJ134T | CARBON | 0.5W | 130KΩ |
| R565 | ERQ1CJP102S | FUSABLE | 1W | 1KΩ |
| R571 | N/A | | | |

| | | |
|------|----------|------|
| L553 | ELH5L738 | COIL |
|------|----------|------|

TX-25X1 TS2720

| | |
|-----------|------------------------------|
| TZS9EW083 | BASE CASTING ASSY |
| TZS9EW084 | UPRIGHT CASTING (RH) |
| TZS9EW085 | UPRIGHT CASTING (LH) |
| TZS9EW094 | TOP PLATE |
| TZS9EW087 | SATELLITE SHELF |
| TZS9EW102 | SATELLITE SHELF LABEL |
| TZS9EW098 | INSTRUCTION SHEET |
| TZS9EW088 | SCREW BAG CONTENTS |
| TZS9EW103 | CABLE CLAMP CLIP |
| TZS9EW090 | CASTOR BAG CONTENTS |
| TZS9EW089 | SHELF FIXING BRACKET (RH/LH) |

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